December 13, 2020

SnapNrack
775 Fiero Lane, Ste. 200
San Luis Obispo, CA 93401
TEL: (877) 732-2860

Attn.: SnapNrack - Engineering Department

Re: Addendum to Report # 2017-00240.11 – Engineering Certification and Span Tables for the SnapNrack S200 Ground Mounted Solar Photovoltaic Racking System.

PZSE, Inc. – Structural Engineers has reviewed and analyzed the SnapNrack Series 200 Ground-Mount Racking System, a proprietary mounting system constructed from modular parts, which is intended for free-standing installation of solar photovoltaic (PV) panels; and has provided the attached span tables. This review included the complete system including the 6005-T5 aluminum rails, the steel pipe support frame, foundation piers, connections, and PV Panels.

For Code and system limitations please refer to the master engineering certification report listed above.

This letter shall be an addendum to the above-referenced report. Allowable span charts are attached for the SnapNrack S200 System when used with Hollaender 5EXT-8 Pipe cap Fitting.

Please see Manufacture drawing S200 D01, S200 D03 & S200 D05.

These tables are intended to be used under the responsible charge of a registered design professional where required by the authority having jurisdiction. In all cases, these tables should be used under the direction of a design professional with sufficient structural engineering knowledge and experience to be able to:

- Evaluate whether these tables are applicable to the project, and
- Understand and determine the appropriate values for all input parameters of these tables.

If you have any questions, do not hesitate to call.

Prepared by:
PZSE, Inc. – Structural Engineers
Roseville, CA

0 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Snow-Free Region	0 Snow 4-Module Sch. 40

90 mph		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span	Concrete Pier Size1 (in)		Required Braces			82"x42"	72-Cell
Wind Speed		(PS, in)	Short Leg	Tall Leg	A	C	D	(PS, in)	Short Leg	Tall Leg	A	E	F	Modules	Modules
Tilt Angle	0° to 7.5°	93	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		166	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	81	12 x 30	12 x 39				173	18 x 60	12 x 57				2	2
	15° to 22.5°	76	12 x 30	12 x 48				129	12 x 42	12 x 60				2	2
	22.5° to 30°	73	12 x 33	12 x 54				104	12 x 39	12 x 63				2	2
	30° to 37.5°	75	12 x 30	12 x 60				93	12 x 33	12 x 69				2	2
	37.5° to 45°	80	12 x 30	12 x 69				88	12 x 30	12 x 72				2	2

95 mph		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span	Concrete Pier Size1 (in)		Required Braces			82"x42"	72-Cell
Wind Speed		(PS, in)	Short Leg	Tall Leg	A	C	D	(PS, in)	Short Leg	Tall Leg	A	E	F	Modules	Modules
Tilt Angle	0° to 7.5°	91	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		162	12 x 42	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	78	12 x 30	12 x 39				165	18 x 60	18 x 60				2	2
	15° to 22.5°	73	12 x 33	12 x 48				123	12 x 45	12 x 60				2	2
	22.5° to 30°	70	12 x 33	12 x 57				99	12 x 42	12 x 66				2	2
	30° to 37.5°	71	12 x 33	12 x 63				88	12 x 36	12 x 69				2	2
	37.5° to 45°	76	12 x 30	12 x 72				83	12 x 33	18 x 63				2	2

100 mph		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span	Concrete Pier Size1 (in)		Required Braces			82"x42"	72-Cell
Wind Speed		(PS, in)	Short Leg	Tall Leg	A	C	D	(PS, in)	Short Leg	Tall Leg	A	E	F	Modules	Modules
Tilt Angle	0° to 7.5°	87	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		156	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	75	12 x 33	12 x 42				157	18 x 60	18 x 60				2	2
	15° to 22.5°	70	12 x 33	12 x 48				117	12 x 45	12 x 60				2	2
	22.5° to 30°	67	12 x 36	12 x 57				94	12 x 42	12 x 69				2	2
	30° to 37.5°	68	12 x 33	12 x 66				83	12 x 36	12 x 72				2	2
	37.5° to 45°	73	12 x 33	18 x 63				79	12 x 33	18 x 63				2	2

105 mph		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span	Concrete Pier Size1 (in)		Required Braces			82"x42"	72-Cell
Wind Speed		(PS, in)	Short Leg	Tall Leg	A	C	D	(PS, in)	Short Leg	Tall Leg	A	E	F	Modules	Modules
Tilt Angle	0° to 7.5°	84	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		150	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	72	12 x 33	12 x 42				149	18 x 60	18 x 60				2	2
	15° to 22.5°	67	12 x 36	12 x 51				111	18 x 60	12 x 63				2	2
	22.5° to 30°	64	12 x 36	12 x 60				89	12 x 45	12 x 69				2	2
	30° to 37.5°	65	12 x 33	12 x 66				79	12 x 39	12 x 72				2	2
	37.5° to 45°	70	12 x 33	18 x 63				75	12 x 36	18 x 66				2	2

110 mph		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span	Concrete Pier Size1 (in)		Required Braces			82"x42"	72-Cell
Wind Speed		(PS, in)	Short Leg	Tall Leg	A	C	D	(PS, in)	Short Leg	Tall Leg	A	E	F	Modules	Modules
Tilt Angle	0° to 7.5°	81	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		144	12 x 48	12 x 48	Yes	Yes	Yes	2	2
	7.5° to 15°	69	12 x 36	12 x 45				142	18 x 60	18 x 60				2	2
	15° to 22.5°	64	12 x 36	12 x 51				106	18 x 60	12 x 63				2	2
	22.5° to 30°	61	12 x 36	12 x 60				85	12 x 45	12 x 72				2	2
	30° to 37.5°	63	12 x 36	12 x 69				76	12 x 39	18 x 63				2	2
	37.5° to 45°	67	12 x 33	18 x 66				72	12 x 36	18 x 66				2	2

0 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Snow-Free Region	0 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	75	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		134	12 x 51	12 x 51	Yes	Yes	Yes	2	2
	7.5° to 15°	64	12 x 36	12 x 48				131	18 x 60	18 x 60				2	2
	15° to 22.5°	59	12 x 39	12 x 54				97	18 x 60	12 x 66				2	2
	22.5° to 30°	57	12 x 39	12 x 63				78	18 x 60	18 x 60				2	2
	30° to 37.5°	58	12 x 39	12 x 72				69	12 x 42	18 x 63				2	2
	37.5° to 45°	62	12 x 36	18 x 69				66	12 x 39	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	70	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		125	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	59	12 x 39	12 x 51				120	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 42	12 x 54				90	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 42	12 x 66				72	18 x 60	18 x 63				2	2
	30° to 37.5°	54	12 x 42	18 x 60				64	12 x 45	18 x 66				2	2
	37.5° to 45°	58	12 x 39	18 x 72				61	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	66	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		117	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 42	12 x 51				112	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 45	12 x 57				83	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 45	12 x 69				67	18 x 60	18 x 66				2	2
	30° to 37.5°	50	12 x 42	18 x 63				60	12 x 48	18 x 69				2	2
	37.5° to 45°	54	12 x 42	18 x 72				56	12 x 42	18 x 75				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	62	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		110	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 45	12 x 54				104	18 x 60	18 x 60				2	2
	15° to 22.5°	48	12 x 45	12 x 60				78	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 48	12 x 72				63	18 x 60	18 x 69				2	2
	30° to 37.5°	47	12 x 45	18 x 66				56	18 x 60	18 x 72				2	2
	37.5° to 45°	51	12 x 42	18 x 75				53	12 x 45	18 x 78				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	58	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		104	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 45	12 x 57				98	18 x 60	18 x 63				2	2
	15° to 22.5°	45	12 x 48	12 x 60				73	18 x 60	18 x 63				2	2
	22.5° to 30°	43	12 x 48	12 x 72				59	18 x 60	18 x 69				3	3
	30° to 37.5°	44	12 x 48	18 x 69				52	18 x 60	18 x 72				3	3
	37.5° to 45°	48	12 x 45	18 x 78				49	12 x 45	18 x 78				3	3

0 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Snow-Free Region	0 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 48	12 x 48	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 48	12 x 60				92	18 x 60	18 x 66				2	2
	15° to 22.5°	43	12 x 51	12 x 63				69	18 x 60	18 x 63				3	3
	22.5° to 30°	41	18 x 60	18 x 63				55	18 x 60	18 x 72				3	3
	30° to 37.5°	42	12 x 48	18 x 69				49	18 x 60	18 x 75				3	3
	37.5° to 45°	45	12 x 48	18 x 81				46	12 x 48	18 x 81				3	3

10 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 10 psf	10 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	82	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		146	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	76	12 x 30	12 x 36				161	18 x 60	18 x 60				2	2
	15° to 22.5°	76	12 x 30	12 x 48				129	12 x 42	12 x 60				2	2
	22.5° to 30°	73	12 x 33	12 x 54				104	12 x 39	12 x 63				2	2
	30° to 37.5°	75	12 x 30	12 x 60				93	12 x 33	12 x 69				2	2
	37.5° to 45°	80	12 x 30	12 x 69				88	12 x 30	12 x 72				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	81	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		144	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	74	12 x 30	12 x 39				157	18 x 60	18 x 60				2	2
	15° to 22.5°	73	12 x 33	12 x 48				123	12 x 45	12 x 60				2	2
	22.5° to 30°	70	12 x 33	12 x 57				99	12 x 42	12 x 66				2	2
	30° to 37.5°	71	12 x 33	12 x 63				88	12 x 36	12 x 69				2	2
	37.5° to 45°	76	12 x 30	12 x 72				83	12 x 33	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	79	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		141	12 x 42	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	71	12 x 30	12 x 39				152	18 x 60	18 x 60				2	2
	15° to 22.5°	70	12 x 33	12 x 48				117	12 x 45	12 x 60				2	2
	22.5° to 30°	67	12 x 36	12 x 57				94	12 x 42	12 x 69				2	2
	30° to 37.5°	68	12 x 33	12 x 66				83	12 x 36	12 x 72				2	2
	37.5° to 45°	73	12 x 33	18 x 63				79	12 x 33	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	77	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		137	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	69	12 x 33	12 x 42				148	18 x 60	18 x 60				2	2
	15° to 22.5°	67	12 x 36	12 x 51				111	18 x 60	12 x 63				2	2
	22.5° to 30°	64	12 x 36	12 x 60				89	12 x 45	12 x 69				2	2
	30° to 37.5°	65	12 x 33	12 x 66				79	12 x 39	12 x 72				2	2
	37.5° to 45°	70	12 x 33	18 x 63				75	12 x 36	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	75	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		134	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	67	12 x 33	12 x 45				142	18 x 60	18 x 60				2	2
	15° to 22.5°	64	12 x 36	12 x 51				106	18 x 60	12 x 63				2	2
	22.5° to 30°	61	12 x 36	12 x 60				85	12 x 45	12 x 72				2	2
	30° to 37.5°	63	12 x 36	12 x 69				76	12 x 39	18 x 63				2	2
	37.5° to 45°	67	12 x 33	18 x 66				72	12 x 36	18 x 66				2	2

10 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 10 psf	10 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	72	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		128	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	64	12 x 36	12 x 48				131	18 x 60	18 x 60				2	2
	15° to 22.5°	59	12 x 39	12 x 54				97	18 x 60	12 x 66				2	2
	22.5° to 30°	57	12 x 39	12 x 63				78	18 x 60	18 x 60				2	2
	30° to 37.5°	58	12 x 39	12 x 72				69	12 x 42	18 x 63				2	2
	37.5° to 45°	62	12 x 36	18 x 69				66	12 x 39	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	68	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		122	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	59	12 x 39	12 x 51				120	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 42	12 x 54				90	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 42	12 x 66				72	18 x 60	18 x 63				2	2
	30° to 37.5°	54	12 x 42	18 x 60				64	12 x 45	18 x 66				2	2
	37.5° to 45°	58	12 x 39	18 x 72				61	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	65	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		116	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 42	12 x 51				112	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 45	12 x 57				83	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 45	12 x 69				67	18 x 60	18 x 66				2	2
	30° to 37.5°	50	12 x 42	18 x 63				60	12 x 48	18 x 69				2	2
	37.5° to 45°	54	12 x 42	18 x 72				56	12 x 42	18 x 75				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	62	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		110	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 45	12 x 54				104	18 x 60	18 x 60				2	2
	15° to 22.5°	48	12 x 45	12 x 60				78	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 48	12 x 72				63	18 x 60	18 x 69				2	2
	30° to 37.5°	47	12 x 45	18 x 66				56	18 x 60	18 x 72				2	2
	37.5° to 45°	51	12 x 42	18 x 75				53	12 x 45	18 x 78				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	58	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		104	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 45	12 x 57				98	18 x 60	18 x 63				2	2
	15° to 22.5°	45	12 x 48	12 x 60				73	18 x 60	18 x 63				2	2
	22.5° to 30°	43	12 x 48	12 x 72				59	18 x 60	18 x 69				3	3
	30° to 37.5°	44	12 x 48	18 x 69				52	18 x 60	18 x 72				3	3
	37.5° to 45°	48	12 x 45	18 x 78				49	12 x 45	18 x 78				3	3

10 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 10 psf	10 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 48	12 x 48	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 48	12 x 60				92	18 x 60	18 x 66				2	2
	15° to 22.5°	43	12 x 51	12 x 63				69	18 x 60	18 x 63				3	3
	22.5° to 30°	41	18 x 60	18 x 63				55	18 x 60	18 x 72				3	3
	30° to 37.5°	42	12 x 48	18 x 69				49	18 x 60	18 x 75				3	3
	37.5° to 45°	45	12 x 48	18 x 81				46	12 x 48	18 x 81				3	3

20 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 20 psf	20 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	70	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		125	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	66	12 x 30	12 x 36				141	18 x 60	18 x 60				2	2
	15° to 22.5°	68	12 x 30	12 x 45				129	18 x 60	18 x 60				2	2
	22.5° to 30°	67	12 x 30	12 x 54				104	12 x 39	12 x 63				2	2
	30° to 37.5°	69	12 x 30	12 x 60				93	12 x 33	12 x 69				2	2
	37.5° to 45°	74	12 x 30	12 x 69				88	12 x 30	12 x 72				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	69	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		124	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	65	12 x 30	12 x 36				138	18 x 60	18 x 60				2	2
	15° to 22.5°	67	12 x 30	12 x 45				123	18 x 60	18 x 60				2	2
	22.5° to 30°	65	12 x 33	12 x 54				99	12 x 42	12 x 66				2	2
	30° to 37.5°	67	12 x 30	12 x 60				88	12 x 36	12 x 69				2	2
	37.5° to 45°	71	12 x 30	12 x 69				83	12 x 33	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	68	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		121	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	63	12 x 30	12 x 36				135	18 x 60	18 x 60				2	2
	15° to 22.5°	65	12 x 33	12 x 48				117	18 x 60	18 x 60				2	2
	22.5° to 30°	63	12 x 33	12 x 57				94	12 x 42	12 x 69				2	2
	30° to 37.5°	65	12 x 33	12 x 63				83	12 x 36	12 x 72				2	2
	37.5° to 45°	69	12 x 30	12 x 72				79	12 x 33	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	67	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		119	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	62	12 x 30	12 x 39				132	18 x 60	18 x 60				2	2
	15° to 22.5°	63	12 x 33	12 x 48				111	18 x 60	18 x 60				2	2
	22.5° to 30°	62	12 x 36	12 x 57				89	12 x 45	12 x 69				2	2
	30° to 37.5°	63	12 x 33	12 x 66				79	12 x 39	12 x 72				2	2
	37.5° to 45°	67	12 x 33	18 x 63				75	12 x 36	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	66	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		117	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	60	12 x 33	12 x 42				129	18 x 60	18 x 60				2	2
	15° to 22.5°	61	12 x 36	12 x 51				106	18 x 60	18 x 60				2	2
	22.5° to 30°	60	12 x 36	12 x 60				85	12 x 45	12 x 72				2	2
	30° to 37.5°	61	12 x 36	12 x 66				76	12 x 39	18 x 63				2	2
	37.5° to 45°	65	12 x 33	18 x 63				72	12 x 36	18 x 66				2	2

20 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 20 psf	20 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	63	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		113	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	58	12 x 36	12 x 45				123	18 x 60	18 x 60				2	2
	15° to 22.5°	58	12 x 39	12 x 51				97	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 39	12 x 63				78	18 x 60	18 x 60				2	2
	30° to 37.5°	58	12 x 39	12 x 72				69	12 x 42	18 x 63				2	2
	37.5° to 45°	62	12 x 36	18 x 69				66	12 x 39	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	61	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		109	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 39	12 x 48				117	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 42	12 x 54				90	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 42	12 x 66				72	18 x 60	18 x 63				2	2
	30° to 37.5°	54	12 x 42	18 x 60				64	12 x 45	18 x 66				2	2
	37.5° to 45°	58	12 x 39	18 x 72				61	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		105	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 42	12 x 51				112	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 45	12 x 57				83	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 45	12 x 69				67	18 x 60	18 x 66				2	2
	30° to 37.5°	50	12 x 42	18 x 63				60	12 x 48	18 x 69				2	2
	37.5° to 45°	54	12 x 42	18 x 72				56	12 x 42	18 x 75				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	56	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		101	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 42	12 x 54				104	18 x 60	18 x 60				2	2
	15° to 22.5°	48	12 x 45	12 x 60				78	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 48	12 x 72				63	18 x 60	18 x 69				2	2
	30° to 37.5°	47	12 x 45	18 x 66				56	18 x 60	18 x 72				2	2
	37.5° to 45°	51	12 x 42	18 x 75				53	12 x 45	18 x 78				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	54	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		97	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 45	12 x 57				98	18 x 60	18 x 63				2	2
	15° to 22.5°	45	12 x 48	12 x 60				73	18 x 60	18 x 63				2	2
	22.5° to 30°	43	12 x 48	12 x 72				59	18 x 60	18 x 69				3	3
	30° to 37.5°	44	12 x 48	18 x 69				52	18 x 60	18 x 72				3	3
	37.5° to 45°	48	12 x 45	18 x 78				49	12 x 45	18 x 78				3	3

20 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 20 psf	20 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 48	12 x 48	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 48	12 x 60				92	18 x 60	18 x 66				2	2
	15° to 22.5°	43	12 x 51	12 x 63				69	18 x 60	18 x 63				3	3
	22.5° to 30°	41	18 x 60	18 x 63				55	18 x 60	18 x 72				3	3
	30° to 37.5°	42	12 x 48	18 x 69				49	18 x 60	18 x 75				3	3
	37.5° to 45°	45	12 x 48	18 x 81				46	12 x 48	18 x 81				3	3

30 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 30 psf	30 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	68	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		121	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	64	12 x 30	12 x 33				137	18 x 60	18 x 60				2	2
	15° to 22.5°	63	12 x 30	12 x 42				129	18 x 60	18 x 60				2	2
	22.5° to 30°	62	12 x 30	12 x 51				104	18 x 60	18 x 60				2	2
	30° to 37.5°	64	12 x 30	12 x 57				93	12 x 33	12 x 69				2	2
	37.5° to 45°	68	12 x 30	12 x 66				88	12 x 30	12 x 72				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	67	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		119	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	63	12 x 30	12 x 36				134	18 x 60	18 x 60				2	2
	15° to 22.5°	61	12 x 30	12 x 45				123	18 x 60	18 x 60				2	2
	22.5° to 30°	61	12 x 30	12 x 54				99	18 x 60	12 x 66				2	2
	30° to 37.5°	63	12 x 30	12 x 60				88	12 x 36	12 x 69				2	2
	37.5° to 45°	67	12 x 30	12 x 69				83	12 x 33	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	66	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		118	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	62	12 x 30	12 x 36				131	18 x 60	18 x 60				2	2
	15° to 22.5°	60	12 x 30	12 x 45				117	18 x 60	18 x 60				2	2
	22.5° to 30°	59	12 x 33	12 x 54				94	18 x 60	12 x 69				2	2
	30° to 37.5°	61	12 x 30	12 x 63				83	12 x 36	12 x 72				2	2
	37.5° to 45°	65	12 x 30	12 x 72				79	12 x 33	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	65	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		116	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	60	12 x 30	12 x 39				128	18 x 60	18 x 60				2	2
	15° to 22.5°	59	12 x 33	12 x 48				111	18 x 60	18 x 60				2	2
	22.5° to 30°	58	12 x 33	12 x 57				89	18 x 60	12 x 69				2	2
	30° to 37.5°	59	12 x 33	12 x 63				79	12 x 39	12 x 72				2	2
	37.5° to 45°	63	12 x 30	12 x 72				75	12 x 36	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	64	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		114	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	59	12 x 33	12 x 39				125	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 36	12 x 48				106	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 36	12 x 60				85	18 x 60	12 x 72				2	2
	30° to 37.5°	58	12 x 33	12 x 66				76	12 x 39	18 x 63				2	2
	37.5° to 45°	62	12 x 33	18 x 63				72	12 x 36	18 x 66				2	2

30 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 30 psf	30 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	61	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		110	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 36	12 x 45				120	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 39	12 x 51				97	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 39	12 x 63				78	18 x 60	18 x 60				2	2
	30° to 37.5°	55	12 x 36	12 x 69				69	12 x 42	18 x 63				2	2
	37.5° to 45°	59	12 x 36	18 x 66				66	12 x 39	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		106	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	54	12 x 36	12 x 48				115	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 42	12 x 54				90	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 42	12 x 66				72	18 x 60	18 x 63				2	2
	30° to 37.5°	52	12 x 39	12 x 72				64	12 x 45	18 x 66				2	2
	37.5° to 45°	56	12 x 39	18 x 69				61	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	57	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		102	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 39	12 x 51				110	18 x 60	18 x 60				2	2
	15° to 22.5°	50	12 x 42	12 x 57				83	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 45	12 x 69				67	18 x 60	18 x 66				2	2
	30° to 37.5°	50	12 x 42	18 x 63				60	12 x 48	18 x 69				2	2
	37.5° to 45°	53	12 x 42	18 x 72				56	12 x 42	18 x 75				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	50	12 x 42	12 x 54				104	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 45	12 x 57				78	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 48	12 x 72				63	18 x 60	18 x 69				2	2
	30° to 37.5°	47	12 x 45	18 x 66				56	18 x 60	18 x 72				2	2
	37.5° to 45°	51	12 x 42	18 x 75				53	12 x 45	18 x 78				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	53	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		95	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 45	12 x 57				98	18 x 60	18 x 63				2	2
	15° to 22.5°	45	12 x 48	12 x 60				73	18 x 60	18 x 63				2	2
	22.5° to 30°	43	12 x 48	12 x 72				59	18 x 60	18 x 69				3	3
	30° to 37.5°	44	12 x 48	18 x 69				52	18 x 60	18 x 72				3	3
	37.5° to 45°	48	12 x 45	18 x 78				49	12 x 45	18 x 78				3	3

30 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 30 psf	30 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		92	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 48	12 x 60				92	18 x 60	18 x 66				2	2
	15° to 22.5°	43	12 x 51	12 x 63				69	18 x 60	18 x 63				3	3
	22.5° to 30°	41	18 x 60	18 x 63				55	18 x 60	18 x 72				3	3
	30° to 37.5°	42	12 x 48	18 x 69				49	18 x 60	18 x 75				3	3
	37.5° to 45°	45	12 x 48	18 x 81				46	12 x 48	18 x 81				3	3

40 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 40 psf	40 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	62	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		111	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	59	12 x 30	12 x 33				126	18 x 60	18 x 60				2	2
	15° to 22.5°	59	12 x 30	12 x 42				129	18 x 60	18 x 60				2	2
	22.5° to 30°	58	12 x 30	12 x 51				104	18 x 60	18 x 60				2	2
	30° to 37.5°	60	12 x 30	12 x 57				93	18 x 60	12 x 69				2	2
	37.5° to 45°	64	12 x 30	12 x 63				88	12 x 30	12 x 72				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	61	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		110	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	58	12 x 30	12 x 33				124	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 30	12 x 42				123	18 x 60	18 x 60				2	2
	22.5° to 30°	57	12 x 30	12 x 51				99	18 x 60	18 x 60				2	2
	30° to 37.5°	59	12 x 30	12 x 57				88	18 x 60	12 x 69				2	2
	37.5° to 45°	63	12 x 30	12 x 66				83	12 x 33	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	61	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		108	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	57	12 x 30	12 x 36				122	18 x 60	18 x 60				2	2
	15° to 22.5°	56	12 x 30	12 x 45				117	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 30	12 x 54				94	18 x 60	18 x 60				2	2
	30° to 37.5°	58	12 x 30	12 x 60				83	18 x 60	12 x 72				2	2
	37.5° to 45°	61	12 x 30	12 x 69				79	12 x 33	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	60	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		107	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 30	12 x 36				120	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 33	12 x 45				111	18 x 60	18 x 60				2	2
	22.5° to 30°	55	12 x 33	12 x 54				89	18 x 60	18 x 60				2	2
	30° to 37.5°	56	12 x 30	12 x 63				79	18 x 60	12 x 72				2	2
	37.5° to 45°	60	12 x 30	12 x 72				75	12 x 36	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		105	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 30	12 x 39				117	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 33	12 x 48				106	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 33	12 x 57				85	18 x 60	18 x 60				2	2
	30° to 37.5°	55	12 x 33	12 x 63				76	18 x 60	18 x 63				2	2
	37.5° to 45°	58	12 x 33	12 x 72				72	12 x 36	18 x 66				2	2

40 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 40 psf	40 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	57	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		102	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 33	12 x 42				113	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 36	12 x 51				97	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 36	12 x 60				78	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 36	12 x 69				69	18 x 60	18 x 63				2	2
	37.5° to 45°	56	12 x 36	18 x 66				66	12 x 39	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 36	12 x 45				109	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 39	12 x 51				90	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 39	12 x 63				72	18 x 60	18 x 63				2	2
	30° to 37.5°	50	12 x 39	12 x 72				64	18 x 60	18 x 66				2	2
	37.5° to 45°	53	12 x 36	18 x 69				61	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	54	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		96	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 39	12 x 48				105	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 42	12 x 54				83	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 42	12 x 66				67	18 x 60	18 x 66				2	2
	30° to 37.5°	48	12 x 42	18 x 63				60	18 x 60	18 x 69				2	2
	37.5° to 45°	51	12 x 39	18 x 72				56	12 x 42	18 x 75				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		93	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 42	12 x 51				101	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 45	12 x 57				78	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 45	12 x 69				63	18 x 60	18 x 69				2	2
	30° to 37.5°	46	12 x 45	18 x 66				56	18 x 60	18 x 72				2	2
	37.5° to 45°	49	12 x 42	18 x 75				53	12 x 45	18 x 78				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 45	12 x 54				96	18 x 60	18 x 63				2	2
	15° to 22.5°	44	12 x 48	12 x 60				73	18 x 60	18 x 63				2	2
	22.5° to 30°	43	12 x 48	12 x 72				59	18 x 60	18 x 69				3	3
	30° to 37.5°	44	12 x 45	18 x 66				52	18 x 60	18 x 72				3	3
	37.5° to 45°	47	12 x 45	18 x 78				49	12 x 45	18 x 78				3	3

40 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 40 psf	40 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		87	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 45	12 x 57				89	18 x 60	18 x 63				2	2
	15° to 22.5°	42	12 x 51	12 x 63				69	18 x 60	18 x 63				3	3
	22.5° to 30°	41	18 x 60	18 x 63				55	18 x 60	18 x 72				3	3
	30° to 37.5°	42	12 x 48	18 x 69				49	18 x 60	18 x 75				3	3
	37.5° to 45°	45	12 x 48	18 x 81				46	12 x 48	18 x 81				3	3

50 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 50 psf	50 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	57	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		102	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 30	12 x 36				118	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 30	12 x 42				129	18 x 60	18 x 60				2	2
	22.5° to 30°	55	12 x 30	12 x 48				104	18 x 60	18 x 60				2	2
	30° to 37.5°	57	12 x 30	12 x 54				93	18 x 60	18 x 60				2	2
	37.5° to 45°	60	12 x 30	12 x 63				88	12 x 30	12 x 72				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	57	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		102	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 30	12 x 36				116	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 30	12 x 42				123	18 x 60	18 x 60				2	2
	22.5° to 30°	54	12 x 30	12 x 51				99	18 x 60	18 x 60				2	2
	30° to 37.5°	56	12 x 30	12 x 57				88	18 x 60	18 x 60				2	2
	37.5° to 45°	59	12 x 30	12 x 66				83	12 x 33	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	56	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		101	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	54	12 x 30	12 x 36				114	18 x 60	18 x 60				2	2
	15° to 22.5°	53	12 x 30	12 x 42				117	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 30	12 x 51				94	18 x 60	18 x 60				2	2
	30° to 37.5°	55	12 x 30	12 x 60				83	18 x 60	18 x 60				2	2
	37.5° to 45°	58	12 x 30	12 x 66				79	12 x 33	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	56	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 30	12 x 36				113	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 30	12 x 45				111	18 x 60	18 x 60				2	2
	22.5° to 30°	52	12 x 33	12 x 54				89	18 x 60	18 x 60				2	2
	30° to 37.5°	53	12 x 30	12 x 60				79	18 x 60	18 x 60				2	2
	37.5° to 45°	57	12 x 30	12 x 69				75	12 x 36	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		98	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 30	12 x 39				111	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 33	12 x 45				106	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 33	12 x 57				85	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 33	12 x 63				76	18 x 60	18 x 63				2	2
	37.5° to 45°	56	12 x 30	12 x 72				72	12 x 36	18 x 66				2	2

50 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 50 psf	50 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	54	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		96	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	50	12 x 33	12 x 42				107	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 36	12 x 48				97	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 36	12 x 60				78	18 x 60	18 x 60				2	2
	30° to 37.5°	50	12 x 36	12 x 66				69	18 x 60	18 x 63				2	2
	37.5° to 45°	53	12 x 33	18 x 63				66	12 x 39	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		93	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 36	12 x 45				103	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 39	12 x 51				90	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 39	12 x 63				72	18 x 60	18 x 63				2	2
	30° to 37.5°	48	12 x 39	12 x 69				64	18 x 60	18 x 66				2	2
	37.5° to 45°	51	12 x 36	18 x 66				61	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		91	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 39	12 x 48				100	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 42	12 x 54				83	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 42	12 x 66				67	18 x 60	18 x 66				2	2
	30° to 37.5°	46	12 x 42	18 x 60				60	18 x 60	18 x 69				2	2
	37.5° to 45°	49	12 x 39	18 x 69				56	12 x 42	18 x 75				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		88	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	45	12 x 39	12 x 51				95	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 45	12 x 57				78	18 x 60	18 x 60				2	2
	22.5° to 30°	43	12 x 45	12 x 69				63	18 x 60	18 x 69				3	3
	30° to 37.5°	44	12 x 42	18 x 63				56	18 x 60	18 x 72				2	2
	37.5° to 45°	47	12 x 42	18 x 72				53	12 x 45	18 x 78				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		86	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 42	12 x 54				89	18 x 60	18 x 60				2	2
	15° to 22.5°	42	12 x 45	12 x 60				73	18 x 60	18 x 63				3	3
	22.5° to 30°	41	12 x 48	12 x 72				59	18 x 60	18 x 69				3	3
	30° to 37.5°	42	12 x 45	18 x 66				52	18 x 60	18 x 72				3	3
	37.5° to 45°	45	12 x 45	18 x 78				49	12 x 45	18 x 78				3	3

50 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 50 psf	50 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	47	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		83	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	42	12 x 45	12 x 57				83	18 x 60	18 x 63				3	3
	15° to 22.5°	41	18 x 60	12 x 63				69	18 x 60	18 x 63				3	3
	22.5° to 30°	40	18 x 60	18 x 63				55	18 x 60	18 x 72				3	3
	30° to 37.5°	41	18 x 60	18 x 69				49	18 x 60	18 x 75				3	3
	37.5° to 45°	44	12 x 45	18 x 78				46	18 x 60	18 x 81				3	3

60 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 60 psf	60 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	53	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 30	12 x 36				111	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 30	12 x 39				125	18 x 60	18 x 60				2	2
	22.5° to 30°	52	12 x 30	12 x 48				104	18 x 60	18 x 60				2	2
	30° to 37.5°	54	12 x 30	12 x 54				93	18 x 60	18 x 60				2	2
	37.5° to 45°	57	12 x 30	12 x 60				88	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	53	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 30	12 x 36				110	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 30	12 x 42				121	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 30	12 x 48				99	18 x 60	18 x 60				2	2
	30° to 37.5°	53	12 x 30	12 x 54				88	18 x 60	18 x 60				2	2
	37.5° to 45°	56	12 x 30	12 x 63				83	18 x 60	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	53	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 30	12 x 36				108	18 x 60	18 x 60				2	2
	15° to 22.5°	50	12 x 30	12 x 42				117	18 x 60	18 x 60				2	2
	22.5° to 30°	50	12 x 30	12 x 51				94	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 30	12 x 57				83	18 x 60	18 x 60				2	2
	37.5° to 45°	55	12 x 30	12 x 66				79	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	50	12 x 30	12 x 36				107	18 x 60	18 x 60				2	2
	15° to 22.5°	50	12 x 30	12 x 42				111	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 30	12 x 54				89	18 x 60	18 x 60				2	2
	30° to 37.5°	51	12 x 30	12 x 60				79	18 x 60	18 x 60				2	2
	37.5° to 45°	54	12 x 30	12 x 69				75	18 x 60	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		93	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 30	12 x 36				105	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 45				106	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 33	12 x 54				85	18 x 60	18 x 60				2	2
	30° to 37.5°	50	12 x 30	12 x 60				76	18 x 60	18 x 63				2	2
	37.5° to 45°	53	12 x 30	12 x 69				72	18 x 60	18 x 66				2	2

60 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 60 psf	60 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 39				102	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 36	12 x 48				97	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 36	12 x 57				78	18 x 60	18 x 60				2	2
	30° to 37.5°	48	12 x 33	12 x 66				69	18 x 60	18 x 63				2	2
	37.5° to 45°	51	12 x 33	18 x 63				66	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		88	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 33	12 x 42				99	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 36	12 x 51				90	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 39	12 x 60				72	18 x 60	18 x 63				2	2
	30° to 37.5°	46	12 x 36	12 x 69				64	18 x 60	18 x 66				2	2
	37.5° to 45°	49	12 x 36	18 x 66				61	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		86	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	45	12 x 36	12 x 48				94	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 39	12 x 54				83	18 x 60	18 x 60				2	2
	22.5° to 30°	43	12 x 42	12 x 66				67	18 x 60	18 x 66				2	2
	30° to 37.5°	45	12 x 39	12 x 72				60	18 x 60	18 x 69				2	2
	37.5° to 45°	48	12 x 39	18 x 69				56	18 x 60	18 x 75				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	47	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		84	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 39	12 x 51				88	18 x 60	18 x 60				2	2
	15° to 22.5°	42	12 x 42	12 x 57				78	18 x 60	18 x 60				3	3
	22.5° to 30°	42	12 x 45	12 x 69				63	18 x 60	18 x 69				3	3
	30° to 37.5°	43	12 x 42	18 x 63				56	18 x 60	18 x 72				3	3
	37.5° to 45°	46	12 x 42	18 x 72				53	18 x 60	18 x 78				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	42	12 x 42	12 x 54				82	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	12 x 57				73	18 x 60	18 x 63				3	3
	22.5° to 30°	40	18 x 60	12 x 69				59	18 x 60	18 x 69				3	3
	30° to 37.5°	41	12 x 45	18 x 66				52	18 x 60	18 x 72				3	3
	37.5° to 45°	44	12 x 42	18 x 75				49	18 x 60	18 x 78				3	3

60 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 60 psf	60 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		80	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	41	18 x 60	12 x 54				77	18 x 60	18 x 60				3	3
	15° to 22.5°	39	18 x 60	12 x 60				69	18 x 60	18 x 63				3	3
	22.5° to 30°	39	18 x 60	12 x 72				55	18 x 60	18 x 72				3	3
	30° to 37.5°	40	18 x 60	18 x 69				49	18 x 60	18 x 75				3	3
	37.5° to 45°	42	12 x 45	18 x 78				46	18 x 60	18 x 81				3	3

70 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 70 psf	70 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		87	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	50	12 x 30	12 x 36				105	18 x 60	18 x 60				2	2
	15° to 22.5°	50	12 x 30	12 x 39				114	18 x 60	18 x 60				2	2
	22.5° to 30°	50	12 x 30	12 x 45				104	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 30	12 x 51				93	18 x 60	18 x 60				2	2
	37.5° to 45°	55	12 x 30	12 x 60				88	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		87	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 30	12 x 36				104	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 42				110	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 30	12 x 48				99	18 x 60	18 x 60				2	2
	30° to 37.5°	51	12 x 30	12 x 54				88	18 x 60	18 x 60				2	2
	37.5° to 45°	54	12 x 30	12 x 63				83	18 x 60	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		87	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 36				103	18 x 60	18 x 60				2	2
	15° to 22.5°	48	12 x 30	12 x 42				107	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 30	12 x 51				94	18 x 60	18 x 60				2	2
	30° to 37.5°	50	12 x 30	12 x 57				83	18 x 60	18 x 60				2	2
	37.5° to 45°	53	12 x 30	12 x 63				79	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		87	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 36				102	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 42				104	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 30	12 x 51				89	18 x 60	18 x 60				2	2
	30° to 37.5°	49	12 x 30	12 x 57				79	18 x 60	18 x 60				2	2
	37.5° to 45°	52	12 x 30	12 x 66				75	18 x 60	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		87	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 30	12 x 36				100	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 45				100	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 33	12 x 54				85	18 x 60	18 x 60				2	2
	30° to 37.5°	48	12 x 30	12 x 60				76	18 x 60	18 x 63				2	2
	37.5° to 45°	51	12 x 30	12 x 69				72	18 x 60	18 x 66				2	2

70 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 70 psf	70 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		86	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 39				97	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 33	12 x 48				94	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 36	12 x 57				78	18 x 60	18 x 60				2	2
	30° to 37.5°	46	12 x 33	12 x 63				69	18 x 60	18 x 63				2	2
	37.5° to 45°	49	12 x 33	18 x 60				66	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	47	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		84	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 33	12 x 42				92	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 36	12 x 51				88	18 x 60	18 x 60				2	2
	22.5° to 30°	43	12 x 39	12 x 60				72	18 x 60	18 x 63				2	2
	30° to 37.5°	45	12 x 36	12 x 69				64	18 x 60	18 x 66				2	2
	37.5° to 45°	48	12 x 36	18 x 66				61	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	43	12 x 36	12 x 45				86	18 x 60	18 x 60				2	2
	15° to 22.5°	42	12 x 39	12 x 51				83	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 42	12 x 63				67	18 x 60	18 x 66				3	3
	30° to 37.5°	43	12 x 39	12 x 72				60	18 x 60	18 x 69				2	2
	37.5° to 45°	46	12 x 39	18 x 69				56	18 x 60	18 x 75				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		80	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	42	12 x 39	12 x 48				81	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	12 x 54				77	18 x 60	18 x 60				3	3
	22.5° to 30°	40	18 x 60	12 x 66				63	18 x 60	18 x 69				3	3
	30° to 37.5°	42	12 x 42	18 x 63				56	18 x 60	18 x 72				3	3
	37.5° to 45°	44	12 x 39	18 x 72				53	18 x 60	18 x 78				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	44	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	41	18 x 60	12 x 51				77	18 x 60	18 x 60				3	3
	15° to 22.5°	39	18 x 60	12 x 57				72	18 x 60	18 x 63				3	3
	22.5° to 30°	39	18 x 60	12 x 69				59	18 x 60	18 x 69				3	3
	30° to 37.5°	40	18 x 60	18 x 66				52	18 x 60	18 x 72				3	3
	37.5° to 45°	43	12 x 42	18 x 75				49	18 x 60	18 x 78				3	3

70 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 70 psf	70 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		76	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	39	18 x 60	12 x 54				72	18 x 60	18 x 60				3	3
	15° to 22.5°	38	18 x 60	12 x 60				68	18 x 60	18 x 63				3	3
	22.5° to 30°	38	18 x 60	12 x 72				55	18 x 60	18 x 72				3	3
	30° to 37.5°	39	18 x 60	18 x 66				49	18 x 60	18 x 75				3	3
	37.5° to 45°	41	12 x 45	18 x 78				46	18 x 60	18 x 81				3	3

80 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 80 psf	80 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 30	12 x 39				99	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 39				104	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 30	12 x 45				104	18 x 60	18 x 60				2	2
	30° to 37.5°	49	12 x 30	12 x 51				93	18 x 60	18 x 60				2	2
	37.5° to 45°	52	12 x 30	12 x 57				88	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 30	12 x 39				99	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 42				101	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 30	12 x 48				99	18 x 60	18 x 60				2	2
	30° to 37.5°	49	12 x 30	12 x 54				88	18 x 60	18 x 60				2	2
	37.5° to 45°	52	12 x 30	12 x 60				83	18 x 60	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 39				98	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 30	12 x 42				98	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 30	12 x 48				94	18 x 60	18 x 60				2	2
	30° to 37.5°	48	12 x 30	12 x 54				83	18 x 60	18 x 60				2	2
	37.5° to 45°	51	12 x 30	12 x 63				79	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 36				97	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 30	12 x 42				95	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 30	12 x 51				89	18 x 60	18 x 60				2	2
	30° to 37.5°	47	12 x 30	12 x 57				79	18 x 60	18 x 60				2	2
	37.5° to 45°	50	12 x 30	12 x 66				75	18 x 60	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	45	12 x 30	12 x 39				94	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 30	12 x 45				93	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 30	12 x 54				85	18 x 60	18 x 60				2	2
	30° to 37.5°	46	12 x 30	12 x 60				76	18 x 60	18 x 63				2	2
	37.5° to 45°	49	12 x 30	12 x 69				72	18 x 60	18 x 66				2	2

80 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 80 psf	80 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 30	12 x 39				90	18 x 60	18 x 60				2	2
	15° to 22.5°	43	12 x 33	12 x 45				87	18 x 60	18 x 60				2	2
	22.5° to 30°	43	12 x 33	12 x 57				78	18 x 60	18 x 60				2	2
	30° to 37.5°	45	12 x 33	12 x 63				69	18 x 60	18 x 63				2	2
	37.5° to 45°	48	12 x 33	12 x 72				66	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		80	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	43	12 x 33	12 x 42				85	18 x 60	18 x 60				2	2
	15° to 22.5°	42	12 x 36	12 x 48				82	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 36	12 x 60				72	18 x 60	18 x 63				3	3
	30° to 37.5°	43	12 x 36	12 x 66				64	18 x 60	18 x 66				2	2
	37.5° to 45°	46	12 x 33	18 x 63				61	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	44	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		79	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	42	12 x 36	12 x 45				80	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	12 x 51				77	18 x 60	18 x 60				3	3
	22.5° to 30°	41	18 x 60	12 x 63				67	18 x 60	18 x 66				3	3
	30° to 37.5°	42	12 x 39	12 x 69				60	18 x 60	18 x 69				3	3
	37.5° to 45°	45	12 x 36	18 x 66				56	18 x 60	18 x 75				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		77	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	40	18 x 60	12 x 48				76	18 x 60	18 x 60				3	3
	15° to 22.5°	40	18 x 60	12 x 54				73	18 x 60	18 x 60				3	3
	22.5° to 30°	39	18 x 60	12 x 66				63	18 x 60	18 x 69				3	3
	30° to 37.5°	40	18 x 60	18 x 60				56	18 x 60	18 x 72				3	3
	37.5° to 45°	43	12 x 39	18 x 69				53	18 x 60	18 x 78				3	3

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	42	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		75	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	39	18 x 60	12 x 51				72	18 x 60	18 x 60				3	3
	15° to 22.5°	38	18 x 60	12 x 57				68	18 x 60	18 x 60				3	3
	22.5° to 30°	38	18 x 60	12 x 69				59	18 x 60	18 x 69				3	3
	30° to 37.5°	39	18 x 60	18 x 63				52	18 x 60	18 x 72				3	3
	37.5° to 45°	42	12 x 42	18 x 75				49	18 x 60	18 x 78				3	3

80 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 80 psf	80 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				68	18 x 60	18 x 60				3	3
	15° to 22.5°	37	18 x 60	18 x 60				64	18 x 60	18 x 63				3	3
	22.5° to 30°	37	18 x 60	18 x 60				55	18 x 60	18 x 72				3	3
	30° to 37.5°	38	18 x 60	18 x 66				49	18 x 60	18 x 75				3	3
	37.5° to 45°	40	18 x 60	18 x 78				46	18 x 60	18 x 81				3	3

90 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 90 psf	90 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	44	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 30	12 x 39				90	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 30	12 x 39				94	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 30	12 x 45				97	18 x 60	18 x 60				2	2
	30° to 37.5°	48	12 x 30	12 x 51				93	18 x 60	18 x 60				2	2
	37.5° to 45°	50	12 x 30	12 x 57				88	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	44	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 30	12 x 39				90	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 30	12 x 42				93	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 30	12 x 48				95	18 x 60	18 x 60				2	2
	30° to 37.5°	47	12 x 30	12 x 51				88	18 x 60	18 x 60				2	2
	37.5° to 45°	50	12 x 30	12 x 60				83	18 x 60	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	44	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 30	12 x 39				90	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 30	12 x 42				91	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 30	12 x 48				92	18 x 60	18 x 60				2	2
	30° to 37.5°	46	12 x 30	12 x 54				83	18 x 60	18 x 60				2	2
	37.5° to 45°	49	12 x 30	12 x 63				79	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	44	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 30	12 x 39				89	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 30	12 x 42				88	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 30	12 x 51				89	18 x 60	18 x 60				2	2
	30° to 37.5°	45	12 x 30	12 x 57				79	18 x 60	18 x 60				2	2
	37.5° to 45°	48	12 x 30	12 x 63				75	18 x 60	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	44	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	43	12 x 30	12 x 39				87	18 x 60	18 x 60				2	2
	15° to 22.5°	43	12 x 30	12 x 45				86	18 x 60	18 x 60				2	2
	22.5° to 30°	43	12 x 30	12 x 51				85	18 x 60	18 x 60				2	2
	30° to 37.5°	45	12 x 30	12 x 57				76	18 x 60	18 x 63				2	2
	37.5° to 45°	48	12 x 30	12 x 66				72	18 x 60	18 x 66				2	2

90 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 90 psf	90 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	44	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	42	12 x 30	12 x 39				83	18 x 60	18 x 60				2	2
	15° to 22.5°	42	12 x 33	12 x 45				81	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 33	12 x 54				78	18 x 60	18 x 60				2	2
	30° to 37.5°	43	12 x 33	12 x 63				69	18 x 60	18 x 63				2	2
	37.5° to 45°	46	12 x 30	12 x 72				66	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		77	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	41	12 x 33	12 x 42				79	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	12 x 48				77	18 x 60	18 x 60				3	3
	22.5° to 30°	41	18 x 60	12 x 60				72	18 x 60	18 x 63				3	3
	30° to 37.5°	42	12 x 36	12 x 66				64	18 x 60	18 x 66				2	2
	37.5° to 45°	45	12 x 33	18 x 63				61	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	42	12 x 33	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		76	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	40	18 x 60	12 x 45				75	18 x 60	18 x 60				3	3
	15° to 22.5°	40	18 x 60	12 x 51				72	18 x 60	18 x 60				3	3
	22.5° to 30°	39	18 x 60	12 x 63				67	18 x 60	18 x 66				3	3
	30° to 37.5°	41	18 x 60	12 x 69				60	18 x 60	18 x 69				3	3
	37.5° to 45°	43	12 x 36	18 x 66				56	18 x 60	18 x 75				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	42	12 x 36	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	39	18 x 60	18 x 60				71	18 x 60	18 x 60				3	3
	15° to 22.5°	38	18 x 60	12 x 54				68	18 x 60	18 x 60				3	3
	22.5° to 30°	38	18 x 60	12 x 66				63	18 x 60	18 x 69				3	3
	30° to 37.5°	39	18 x 60	12 x 72				56	18 x 60	18 x 72				3	3
	37.5° to 45°	42	12 x 39	18 x 69				53	18 x 60	18 x 78				3	3

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		73	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				68	18 x 60	18 x 60				3	3
	15° to 22.5°	37	18 x 60	18 x 60				64	18 x 60	18 x 60				3	3
	22.5° to 30°	37	18 x 60	18 x 60				59	18 x 60	18 x 69				3	3
	30° to 37.5°	38	18 x 60	18 x 63				52	18 x 60	18 x 72				3	3
	37.5° to 45°	41	18 x 60	18 x 72				49	18 x 60	18 x 78				3	3

90 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 90 psf	90 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	37	18 x 60	18 x 60				64	18 x 60	18 x 60				3	3
	15° to 22.5°	36	18 x 60	18 x 60				61	18 x 60	18 x 60				3	3
	22.5° to 30°	36	18 x 60	18 x 60				55	18 x 60	18 x 72				3	3
	30° to 37.5°	37	18 x 60	18 x 66				49	18 x 60	18 x 75				3	3
	37.5° to 45°	39	18 x 60	18 x 75				46	18 x 60	18 x 81				3	3

100 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 100 psf	100 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	42	12 x 30	12 x 39				81	18 x 60	18 x 60				2	2
	15° to 22.5°	43	12 x 30	12 x 39				85	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 30	12 x 45				90	18 x 60	18 x 60				2	2
	30° to 37.5°	46	12 x 30	12 x 48				93	18 x 60	18 x 60				2	2
	37.5° to 45°	49	12 x 30	12 x 57				88	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	42	12 x 30	12 x 39				81	18 x 60	18 x 60				2	2
	15° to 22.5°	43	12 x 30	12 x 42				85	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 30	12 x 45				88	18 x 60	18 x 60				2	2
	30° to 37.5°	45	12 x 30	12 x 51				88	18 x 60	18 x 60				2	2
	37.5° to 45°	48	12 x 30	12 x 60				83	18 x 60	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	42	12 x 30	12 x 39				81	18 x 60	18 x 60				2	2
	15° to 22.5°	43	12 x 30	12 x 42				84	18 x 60	18 x 60				2	2
	22.5° to 30°	43	12 x 30	12 x 48				86	18 x 60	18 x 60				2	2
	30° to 37.5°	45	12 x 30	12 x 54				83	18 x 60	18 x 60				2	2
	37.5° to 45°	47	12 x 30	12 x 60				79	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	42	12 x 30	12 x 39				81	18 x 60	18 x 60				2	2
	15° to 22.5°	42	12 x 30	12 x 42				82	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 30	12 x 48				83	18 x 60	18 x 60				2	2
	30° to 37.5°	44	12 x 30	12 x 54				79	18 x 60	18 x 60				2	2
	37.5° to 45°	47	12 x 30	12 x 63				75	18 x 60	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	42	12 x 30	12 x 39				81	18 x 60	18 x 60				3	3
	15° to 22.5°	42	12 x 30	12 x 42				80	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 30	12 x 51				81	18 x 60	18 x 60				2	2
	30° to 37.5°	43	12 x 30	12 x 57				76	18 x 60	18 x 63				2	2
	37.5° to 45°	46	12 x 30	12 x 66				72	18 x 60	18 x 66				2	2

100 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 100 psf	100 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	41	18 x 60	12 x 39				77	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	12 x 45				76	18 x 60	18 x 60				3	3
	22.5° to 30°	41	18 x 60	12 x 54				77	18 x 60	18 x 60				3	3
	30° to 37.5°	42	12 x 33	12 x 60				69	18 x 60	18 x 63				2	2
	37.5° to 45°	45	12 x 30	12 x 69				66	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	12 x 39				74	18 x 60	18 x 60				3	3
	15° to 22.5°	39	18 x 60	12 x 48				72	18 x 60	18 x 60				3	3
	22.5° to 30°	39	18 x 60	12 x 57				72	18 x 60	18 x 63				3	3
	30° to 37.5°	41	18 x 60	12 x 66				64	18 x 60	18 x 66				3	3
	37.5° to 45°	43	12 x 33	18 x 63				61	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		73	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	39	18 x 60	18 x 60				70	18 x 60	18 x 60				3	3
	15° to 22.5°	38	18 x 60	12 x 51				68	18 x 60	18 x 60				3	3
	22.5° to 30°	38	18 x 60	12 x 60				67	18 x 60	18 x 66				3	3
	30° to 37.5°	40	18 x 60	12 x 69				60	18 x 60	18 x 69				3	3
	37.5° to 45°	42	12 x 36	18 x 66				56	18 x 60	18 x 75				3	3

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		72	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				67	18 x 60	18 x 60				3	3
	15° to 22.5°	37	18 x 60	18 x 60				65	18 x 60	18 x 60				3	3
	22.5° to 30°	37	18 x 60	18 x 60				63	18 x 60	18 x 69				3	3
	30° to 37.5°	38	18 x 60	12 x 72				56	18 x 60	18 x 72				3	3
	37.5° to 45°	41	18 x 60	18 x 69				53	18 x 60	18 x 78				3	3

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	39	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		70	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	37	18 x 60	18 x 60				64	18 x 60	18 x 60				3	3
	15° to 22.5°	36	18 x 60	18 x 60				61	18 x 60	18 x 60				3	3
	22.5° to 30°	36	18 x 60	18 x 60				59	18 x 60	18 x 69				3	3
	30° to 37.5°	37	18 x 60	18 x 63				52	18 x 60	18 x 72				3	3
	37.5° to 45°	40	18 x 60	18 x 72				49	18 x 60	18 x 78				3	3

100 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 100 psf	100 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	39	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		69	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	36	18 x 60	18 x 60				61	18 x 60	18 x 60				3	3
	15° to 22.5°	35	18 x 60	18 x 60				58	18 x 60	18 x 60				3	3
	22.5° to 30°	35	18 x 60	18 x 60				55	18 x 60	18 x 72				3	3
	30° to 37.5°	36	18 x 60	18 x 66				49	18 x 60	18 x 75				3	3
	37.5° to 45°	39	18 x 60	18 x 75				46	18 x 60	18 x 81				3	3

110 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 110 psf	110 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	18 x 60				77	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 30	12 x 42				82	18 x 60	18 x 60				2	2
	30° to 37.5°	44	12 x 30	12 x 48				90	18 x 60	18 x 60				2	2
	37.5° to 45°	46	12 x 30	12 x 54				88	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	18 x 60				77	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 30	12 x 45				82	18 x 60	18 x 60				2	2
	30° to 37.5°	44	12 x 30	12 x 51				88	18 x 60	18 x 60				2	2
	37.5° to 45°	46	12 x 30	12 x 57				83	18 x 60	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	18 x 60				77	18 x 60	18 x 60				3	3
	22.5° to 30°	42	12 x 30	12 x 48				80	18 x 60	18 x 60				2	2
	30° to 37.5°	43	12 x 30	12 x 54				83	18 x 60	18 x 60				2	2
	37.5° to 45°	46	12 x 30	12 x 60				79	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	18 x 60				77	18 x 60	18 x 60				3	3
	22.5° to 30°	41	18 x 60	12 x 48				78	18 x 60	18 x 60				2	2
	30° to 37.5°	43	12 x 30	12 x 54				79	18 x 60	18 x 60				2	2
	37.5° to 45°	45	12 x 30	12 x 63				75	18 x 60	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	15° to 22.5°	40	18 x 60	12 x 42				75	18 x 60	18 x 60				3	3
	22.5° to 30°	41	18 x 60	12 x 51				76	18 x 60	18 x 60				3	3
	30° to 37.5°	42	12 x 30	12 x 57				76	18 x 60	18 x 63				2	2
	37.5° to 45°	45	12 x 30	12 x 66				72	18 x 60	18 x 66				2	2

110 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 110 psf	110 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				72	18 x 60	18 x 60				3	3
	15° to 22.5°	39	18 x 60	12 x 45				72	18 x 60	18 x 60				3	3
	22.5° to 30°	39	18 x 60	12 x 54				72	18 x 60	18 x 60				3	3
	30° to 37.5°	41	18 x 60	12 x 60				69	18 x 60	18 x 63				3	3
	37.5° to 45°	43	12 x 30	12 x 69				66	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	39	18 x 60	18 x 60				69	18 x 60	18 x 60				3	3
	15° to 22.5°	38	18 x 60	18 x 60				68	18 x 60	18 x 60				3	3
	22.5° to 30°	38	18 x 60	12 x 57				68	18 x 60	18 x 63				3	3
	30° to 37.5°	40	18 x 60	12 x 63				64	18 x 60	18 x 66				3	3
	37.5° to 45°	42	12 x 33	18 x 60				61	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				66	18 x 60	18 x 60				3	3
	15° to 22.5°	37	18 x 60	18 x 60				65	18 x 60	18 x 60				3	3
	22.5° to 30°	37	18 x 60	18 x 60				64	18 x 60	18 x 63				3	3
	30° to 37.5°	39	18 x 60	12 x 69				60	18 x 60	18 x 69				3	3
	37.5° to 45°	41	18 x 60	18 x 66				56	18 x 60	18 x 75				3	3

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	39	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		69	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	37	18 x 60	18 x 60				63	18 x 60	18 x 60				3	3
	15° to 22.5°	36	18 x 60	18 x 60				61	18 x 60	18 x 60				3	3
	22.5° to 30°	36	18 x 60	18 x 60				61	18 x 60	18 x 66				3	3
	30° to 37.5°	37	18 x 60	18 x 60				56	18 x 60	18 x 72				3	3
	37.5° to 45°	40	18 x 60	18 x 69				53	18 x 60	18 x 78				3	3

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	38	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		67	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	36	18 x 60	18 x 60				60	18 x 60	18 x 60				3	3
	15° to 22.5°	35	18 x 60	18 x 60				58	18 x 60	18 x 60				3	3
	22.5° to 30°	35	18 x 60	18 x 60				57	18 x 60	18 x 69				3	3
	30° to 37.5°	36	18 x 60	18 x 63				52	18 x 60	18 x 72				3	3
	37.5° to 45°	39	18 x 60	18 x 72				49	18 x 60	18 x 78				3	3

110 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 110 psf	110 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	37	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		65	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	35	18 x 60	18 x 60				58	18 x 60	18 x 60				3	3
	15° to 22.5°	34	18 x 60	18 x 60				55	18 x 60	18 x 60				3	3
	22.5° to 30°	34	18 x 60	18 x 60				54	18 x 60	18 x 72				NA	NA
	30° to 37.5°	35	18 x 60	18 x 66				49	18 x 60	18 x 75				3	3
	37.5° to 45°	38	18 x 60	18 x 75				46	18 x 60	18 x 81				3	3

120 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 120 psf	120 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	38	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		67	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				68	18 x 60	18 x 60				3	3
	15° to 22.5°	39	18 x 60	18 x 60				71	18 x 60	18 x 60				3	3
	22.5° to 30°	40	18 x 60	18 x 60				76	18 x 60	18 x 60				2	2
	30° to 37.5°	42	12 x 30	12 x 48				82	18 x 60	18 x 60				2	2
	37.5° to 45°	45	12 x 30	12 x 54				88	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	38	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		67	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				68	18 x 60	18 x 60				3	3
	15° to 22.5°	39	18 x 60	18 x 60				71	18 x 60	18 x 60				3	3
	22.5° to 30°	40	18 x 60	18 x 60				76	18 x 60	18 x 60				2	2
	30° to 37.5°	42	12 x 30	12 x 51				82	18 x 60	18 x 60				2	2
	37.5° to 45°	45	12 x 30	12 x 57				83	18 x 60	18 x 63				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	38	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		67	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				68	18 x 60	18 x 60				3	3
	15° to 22.5°	39	18 x 60	18 x 60				71	18 x 60	18 x 60				3	3
	22.5° to 30°	40	18 x 60	18 x 60				76	18 x 60	18 x 60				3	3
	30° to 37.5°	42	12 x 30	12 x 51				81	18 x 60	18 x 60				2	2
	37.5° to 45°	44	12 x 30	12 x 60				79	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	38	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		67	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				68	18 x 60	18 x 60				3	3
	15° to 22.5°	39	18 x 60	18 x 60				71	18 x 60	18 x 60				3	3
	22.5° to 30°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	30° to 37.5°	41	12 x 30	12 x 54				79	18 x 60	18 x 60				2	2
	37.5° to 45°	44	12 x 30	12 x 63				75	18 x 60	18 x 66				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	38	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		67	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				68	18 x 60	18 x 60				3	3
	15° to 22.5°	39	18 x 60	18 x 60				71	18 x 60	18 x 60				3	3
	22.5° to 30°	39	18 x 60	12 x 51				72	18 x 60	18 x 60				3	3
	30° to 37.5°	41	18 x 60	12 x 57				76	18 x 60	18 x 63				2	2
	37.5° to 45°	43	12 x 30	12 x 63				72	18 x 60	18 x 66				2	2

120 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 120 psf	120 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	38	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		67	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				68	18 x 60	18 x 60				3	3
	15° to 22.5°	38	18 x 60	18 x 60				67	18 x 60	18 x 60				3	3
	22.5° to 30°	38	18 x 60	18 x 60				68	18 x 60	18 x 60				3	3
	30° to 37.5°	40	18 x 60	12 x 60				69	18 x 60	18 x 63				3	3
	37.5° to 45°	42	12 x 30	12 x 69				66	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	38	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		67	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				65	18 x 60	18 x 60				3	3
	15° to 22.5°	37	18 x 60	18 x 60				64	18 x 60	18 x 60				3	3
	22.5° to 30°	37	18 x 60	18 x 60				65	18 x 60	18 x 60				3	3
	30° to 37.5°	39	18 x 60	12 x 63				64	18 x 60	18 x 66				3	3
	37.5° to 45°	41	18 x 60	12 x 72				61	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	38	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		67	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	37	18 x 60	18 x 60				63	18 x 60	18 x 60				3	3
	15° to 22.5°	36	18 x 60	18 x 60				61	18 x 60	18 x 60				3	3
	22.5° to 30°	36	18 x 60	18 x 60				61	18 x 60	18 x 63				3	3
	30° to 37.5°	38	18 x 60	18 x 60				60	18 x 60	18 x 69				3	3
	37.5° to 45°	40	18 x 60	18 x 63				56	18 x 60	18 x 75				3	3

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	38	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		66	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	36	18 x 60	18 x 60				60	18 x 60	18 x 60				3	3
	15° to 22.5°	35	18 x 60	18 x 60				58	18 x 60	18 x 60				3	3
	22.5° to 30°	35	18 x 60	18 x 60				58	18 x 60	18 x 66				3	3
	30° to 37.5°	37	18 x 60	18 x 60				56	18 x 60	18 x 72				3	3
	37.5° to 45°	39	18 x 60	18 x 66				53	18 x 60	18 x 78				3	3

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	37	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		64	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	35	18 x 60	18 x 60				57	18 x 60	18 x 60				3	3
	15° to 22.5°	35	18 x 60	18 x 60				55	18 x 60	18 x 60				3	3
	22.5° to 30°	34	18 x 60	18 x 60				55	18 x 60	18 x 69				3	3
	30° to 37.5°	36	18 x 60	18 x 60				52	18 x 60	18 x 72				3	3
	37.5° to 45°	38	18 x 60	18 x 69				49	18 x 60	18 x 78				3	3

120 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 120 psf	120 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			82"x42" Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	36	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		61	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	34	18 x 60	18 x 60				55	18 x 60	18 x 60				3	3
	15° to 22.5°	34	18 x 60	18 x 60				53	18 x 60	18 x 60				NA	NA
	22.5° to 30°	33	18 x 60	18 x 60				52	18 x 60	18 x 69				NA	NA
	30° to 37.5°	35	18 x 60	18 x 63				49	18 x 60	18 x 75				NA	NA
	37.5° to 45°	37	18 x 60	18 x 75				46	18 x 60	18 x 81				3	3

0 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Snow-Free Region	0 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	112	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		182	12 x 36	12 x 36	Yes	Yes	Yes	2	2
	7.5° to 15°	98	12 x 30	12 x 36				182	12 x 36	12 x 48				2	2
	15° to 22.5°	92	12 x 30	12 x 42				156	12 x 39	12 x 54				2	2
	22.5° to 30°	88	12 x 30	12 x 51				126	12 x 36	12 x 60				2	2
	30° to 37.5°	90	12 x 30	12 x 57				112	12 x 30	12 x 63				2	2
	37.5° to 45°	96	12 x 30	12 x 66				106	12 x 30	12 x 66				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	109	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		178	12 x 36	12 x 36	Yes	Yes	Yes	2	2
	7.5° to 15°	94	12 x 30	12 x 36				174	12 x 39	12 x 51				2	2
	15° to 22.5°	88	12 x 30	12 x 45				148	12 x 39	12 x 54				2	2
	22.5° to 30°	84	12 x 30	12 x 51				119	12 x 36	12 x 60				2	2
	30° to 37.5°	86	12 x 30	12 x 57				106	12 x 33	12 x 63				2	2
	37.5° to 45°	92	12 x 30	12 x 66				100	12 x 30	12 x 69				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	105	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		171	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	90	12 x 30	12 x 36				167	12 x 42	12 x 51				2	2
	15° to 22.5°	84	12 x 30	12 x 45				140	12 x 42	12 x 57				2	2
	22.5° to 30°	80	12 x 30	12 x 54				113	12 x 39	12 x 63				2	2
	30° to 37.5°	82	12 x 30	12 x 60				101	12 x 33	12 x 66				2	2
	37.5° to 45°	88	12 x 30	12 x 69				95	12 x 30	12 x 72				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	101	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		164	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	86	12 x 30	12 x 39				160	12 x 42	12 x 54				2	2
	15° to 22.5°	81	12 x 33	12 x 45				134	12 x 42	12 x 57				2	2
	22.5° to 30°	77	12 x 33	12 x 54				108	12 x 39	12 x 63				2	2
	30° to 37.5°	79	12 x 30	12 x 60				96	12 x 36	12 x 66				2	2
	37.5° to 45°	84	12 x 30	12 x 69				91	12 x 30	12 x 72				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	97	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		158	12 x 42	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	83	12 x 30	12 x 39				154	12 x 45	12 x 57				2	2
	15° to 22.5°	77	12 x 33	12 x 48				128	12 x 45	12 x 57				2	2
	22.5° to 30°	74	12 x 33	12 x 57				103	12 x 42	12 x 66				2	2
	30° to 37.5°	76	12 x 33	12 x 63				91	12 x 36	12 x 69				2	2
	37.5° to 45°	81	12 x 30	12 x 72				86	12 x 33	18 x 60				2	2

0 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Snow-Free Region	0 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	90	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		147	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	77	12 x 33	12 x 42				142	12 x 48	12 x 60				2	2
	15° to 22.5°	72	12 x 36	12 x 48				117	12 x 48	12 x 60				2	2
	22.5° to 30°	68	12 x 36	12 x 57				94	12 x 42	12 x 69				2	2
	30° to 37.5°	70	12 x 33	12 x 66				84	12 x 39	12 x 72				2	2
	37.5° to 45°	75	12 x 33	18 x 63				79	12 x 33	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	84	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		137	12 x 48	12 x 48	Yes	Yes	Yes	2	2
	7.5° to 15°	71	12 x 36	12 x 45				133	18 x 60	12 x 63				2	2
	15° to 22.5°	67	12 x 39	12 x 51				108	18 x 60	12 x 63				2	2
	22.5° to 30°	63	12 x 39	12 x 60				87	12 x 45	12 x 69				2	2
	30° to 37.5°	65	12 x 36	12 x 69				77	12 x 39	12 x 72				2	2
	37.5° to 45°	70	12 x 36	18 x 66				73	12 x 36	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	79	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		129	12 x 51	12 x 51	Yes	Yes	Yes	2	2
	7.5° to 15°	67	12 x 36	12 x 48				124	18 x 60	18 x 60				2	2
	15° to 22.5°	62	12 x 39	12 x 51				100	18 x 60	12 x 66				2	2
	22.5° to 30°	59	12 x 39	12 x 63				81	12 x 48	12 x 72				2	2
	30° to 37.5°	61	12 x 39	12 x 69				72	12 x 42	18 x 63				2	2
	37.5° to 45°	65	12 x 36	18 x 66				68	12 x 39	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	74	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		121	12 x 51	12 x 51	Yes	Yes	Yes	2	2
	7.5° to 15°	63	12 x 39	12 x 48				116	18 x 60	18 x 60				2	2
	15° to 22.5°	58	12 x 42	12 x 54				94	18 x 60	12 x 69				2	2
	22.5° to 30°	56	12 x 42	12 x 66				75	18 x 60	18 x 63				2	2
	30° to 37.5°	57	12 x 39	12 x 72				67	12 x 45	18 x 66				2	2
	37.5° to 45°	61	12 x 39	18 x 69				63	12 x 39	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	70	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		114	12 x 54	12 x 54	Yes	Yes	Yes	2	2
	7.5° to 15°	59	12 x 42	12 x 51				110	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 42	12 x 57				88	18 x 60	12 x 72				2	2
	22.5° to 30°	52	12 x 45	12 x 66				71	18 x 60	18 x 63				2	2
	30° to 37.5°	54	12 x 42	18 x 63				63	12 x 45	18 x 66				2	2
	37.5° to 45°	58	12 x 42	18 x 72				59	12 x 42	18 x 72				2	2

0 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Snow-Free Region	0 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	67	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		108	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 42	12 x 54				103	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 45	12 x 57				83	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 45	12 x 69				67	18 x 60	18 x 66				2	2
	30° to 37.5°	51	12 x 45	18 x 63				59	12 x 48	18 x 69				2	2
	37.5° to 45°	54	12 x 42	18 x 75				56	12 x 42	18 x 75				2	2

10 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 10 psf	10 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	99	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		161	12 x 33	12 x 33	Yes	Yes	Yes	2	2
	7.5° to 15°	91	12 x 30	12 x 33				170	12 x 36	12 x 45				2	2
	15° to 22.5°	91	12 x 30	12 x 42				156	12 x 39	12 x 54				2	2
	22.5° to 30°	88	12 x 30	12 x 51				126	12 x 36	12 x 60				2	2
	30° to 37.5°	90	12 x 30	12 x 57				112	12 x 30	12 x 63				2	2
	37.5° to 45°	96	12 x 30	12 x 66				106	12 x 30	12 x 66				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	97	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		158	12 x 33	12 x 33	Yes	Yes	Yes	2	2
	7.5° to 15°	89	12 x 30	12 x 36				165	12 x 39	12 x 48				2	2
	15° to 22.5°	88	12 x 30	12 x 45				148	12 x 39	12 x 54				2	2
	22.5° to 30°	84	12 x 30	12 x 51				119	12 x 36	12 x 60				2	2
	30° to 37.5°	86	12 x 30	12 x 57				106	12 x 33	12 x 63				2	2
	37.5° to 45°	92	12 x 30	12 x 66				100	12 x 30	12 x 69				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	95	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		155	12 x 36	12 x 36	Yes	Yes	Yes	2	2
	7.5° to 15°	86	12 x 30	12 x 36				160	12 x 39	12 x 51				2	2
	15° to 22.5°	84	12 x 30	12 x 45				140	12 x 42	12 x 57				2	2
	22.5° to 30°	80	12 x 30	12 x 54				113	12 x 39	12 x 63				2	2
	30° to 37.5°	82	12 x 30	12 x 60				101	12 x 33	12 x 66				2	2
	37.5° to 45°	88	12 x 30	12 x 69				95	12 x 30	12 x 72				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	93	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		151	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	84	12 x 30	12 x 39				155	12 x 42	12 x 54				2	2
	15° to 22.5°	81	12 x 33	12 x 45				134	12 x 42	12 x 57				2	2
	22.5° to 30°	77	12 x 33	12 x 54				108	12 x 39	12 x 63				2	2
	30° to 37.5°	79	12 x 30	12 x 60				96	12 x 36	12 x 66				2	2
	37.5° to 45°	84	12 x 30	12 x 69				91	12 x 30	12 x 72				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	91	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		147	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	81	12 x 30	12 x 39				151	12 x 45	12 x 57				2	2
	15° to 22.5°	77	12 x 33	12 x 48				128	12 x 45	12 x 57				2	2
	22.5° to 30°	74	12 x 33	12 x 57				103	12 x 42	12 x 66				2	2
	30° to 37.5°	76	12 x 33	12 x 63				91	12 x 36	12 x 69				2	2
	37.5° to 45°	81	12 x 30	12 x 72				86	12 x 33	18 x 60				2	2

10 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 10 psf	10 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	86	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		140	12 x 42	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	77	12 x 33	12 x 42				142	12 x 48	12 x 60				2	2
	15° to 22.5°	72	12 x 36	12 x 48				117	12 x 48	12 x 60				2	2
	22.5° to 30°	68	12 x 36	12 x 57				94	12 x 42	12 x 69				2	2
	30° to 37.5°	70	12 x 33	12 x 66				84	12 x 39	12 x 72				2	2
	37.5° to 45°	75	12 x 33	18 x 63				79	12 x 33	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	82	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		134	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	71	12 x 36	12 x 45				133	18 x 60	12 x 63				2	2
	15° to 22.5°	67	12 x 39	12 x 51				108	18 x 60	12 x 63				2	2
	22.5° to 30°	63	12 x 39	12 x 60				87	12 x 45	12 x 69				2	2
	30° to 37.5°	65	12 x 36	12 x 69				77	12 x 39	12 x 72				2	2
	37.5° to 45°	70	12 x 36	18 x 66				73	12 x 36	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	78	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		128	12 x 51	12 x 51	Yes	Yes	Yes	2	2
	7.5° to 15°	67	12 x 36	12 x 48				124	18 x 60	18 x 60				2	2
	15° to 22.5°	62	12 x 39	12 x 51				100	18 x 60	12 x 66				2	2
	22.5° to 30°	59	12 x 39	12 x 63				81	12 x 48	12 x 72				2	2
	30° to 37.5°	61	12 x 39	12 x 69				72	12 x 42	18 x 63				2	2
	37.5° to 45°	65	12 x 36	18 x 66				68	12 x 39	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	74	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		121	12 x 51	12 x 51	Yes	Yes	Yes	2	2
	7.5° to 15°	63	12 x 39	12 x 48				116	18 x 60	18 x 60				2	2
	15° to 22.5°	58	12 x 42	12 x 54				94	18 x 60	12 x 69				2	2
	22.5° to 30°	56	12 x 42	12 x 66				75	18 x 60	18 x 63				2	2
	30° to 37.5°	57	12 x 39	12 x 72				67	12 x 45	18 x 66				2	2
	37.5° to 45°	61	12 x 39	18 x 69				63	12 x 39	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	70	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		114	12 x 54	12 x 54	Yes	Yes	Yes	2	2
	7.5° to 15°	59	12 x 42	12 x 51				110	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 42	12 x 57				88	18 x 60	12 x 72				2	2
	22.5° to 30°	52	12 x 45	12 x 66				71	18 x 60	18 x 63				2	2
	30° to 37.5°	54	12 x 42	18 x 63				63	12 x 45	18 x 66				2	2
	37.5° to 45°	58	12 x 42	18 x 72				59	12 x 42	18 x 72				2	2

10 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 10 psf	10 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	67	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		108	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 42	12 x 54				103	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 45	12 x 57				83	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 45	12 x 69				67	18 x 60	18 x 66				2	2
	30° to 37.5°	51	12 x 45	18 x 63				59	12 x 48	18 x 69				2	2
	37.5° to 45°	54	12 x 42	18 x 75				56	12 x 42	18 x 75				2	2

20 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 20 psf	20 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	84	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		137	12 x 30	12 x 30	Yes	Yes	Yes	2	2
	7.5° to 15°	80	12 x 30	12 x 33				148	12 x 33	12 x 42				2	2
	15° to 22.5°	82	12 x 30	12 x 42				156	12 x 39	12 x 54				2	2
	22.5° to 30°	81	12 x 30	12 x 48				126	12 x 36	12 x 60				2	2
	30° to 37.5°	84	12 x 30	12 x 54				112	12 x 30	12 x 63				2	2
	37.5° to 45°	89	12 x 30	12 x 63				106	12 x 30	12 x 66				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	83	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		136	12 x 30	12 x 30	Yes	Yes	Yes	2	2
	7.5° to 15°	78	12 x 30	12 x 33				145	12 x 36	12 x 45				2	2
	15° to 22.5°	80	12 x 30	12 x 42				148	12 x 39	12 x 54				2	2
	22.5° to 30°	79	12 x 30	12 x 51				119	12 x 36	12 x 60				2	2
	30° to 37.5°	81	12 x 30	12 x 57				106	12 x 33	12 x 63				2	2
	37.5° to 45°	86	12 x 30	12 x 66				100	12 x 30	12 x 69				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	82	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		133	12 x 33	12 x 33	Yes	Yes	Yes	2	2
	7.5° to 15°	76	12 x 30	12 x 33				142	18 x 60	12 x 48				2	2
	15° to 22.5°	78	12 x 30	12 x 42				140	12 x 42	12 x 57				2	2
	22.5° to 30°	76	12 x 30	12 x 51				113	12 x 39	12 x 63				2	2
	30° to 37.5°	79	12 x 30	12 x 57				101	12 x 33	12 x 66				2	2
	37.5° to 45°	84	12 x 30	12 x 66				95	12 x 30	12 x 72				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	81	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		131	12 x 36	12 x 36	Yes	Yes	Yes	2	2
	7.5° to 15°	75	12 x 30	12 x 36				138	18 x 60	12 x 51				2	2
	15° to 22.5°	76	12 x 30	12 x 45				134	12 x 42	12 x 57				2	2
	22.5° to 30°	74	12 x 33	12 x 54				108	12 x 39	12 x 63				2	2
	30° to 37.5°	76	12 x 30	12 x 60				96	12 x 36	12 x 66				2	2
	37.5° to 45°	81	12 x 30	12 x 69				91	12 x 30	12 x 72				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	79	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		129	12 x 36	12 x 36	Yes	Yes	Yes	2	2
	7.5° to 15°	73	12 x 30	12 x 36				135	18 x 60	12 x 51				2	2
	15° to 22.5°	74	12 x 33	12 x 45				128	12 x 45	12 x 57				2	2
	22.5° to 30°	72	12 x 33	12 x 54				103	12 x 42	12 x 66				2	2
	30° to 37.5°	74	12 x 33	12 x 63				91	12 x 36	12 x 69				2	2
	37.5° to 45°	79	12 x 30	12 x 72				86	12 x 33	18 x 60				2	2

20 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 20 psf	20 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	76	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		124	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	70	12 x 30	12 x 39				129	18 x 60	18 x 60				2	2
	15° to 22.5°	70	12 x 36	12 x 48				117	12 x 48	12 x 60				2	2
	22.5° to 30°	68	12 x 36	12 x 57				94	12 x 42	12 x 69				2	2
	30° to 37.5°	70	12 x 33	12 x 66				84	12 x 39	12 x 72				2	2
	37.5° to 45°	75	12 x 33	18 x 63				79	12 x 33	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	73	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		119	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	67	12 x 33	12 x 42				124	18 x 60	18 x 60				2	2
	15° to 22.5°	66	12 x 39	12 x 51				108	18 x 60	12 x 63				2	2
	22.5° to 30°	63	12 x 39	12 x 60				87	12 x 45	12 x 69				2	2
	30° to 37.5°	65	12 x 36	12 x 69				77	12 x 39	12 x 72				2	2
	37.5° to 45°	70	12 x 36	18 x 66				73	12 x 36	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	71	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		115	12 x 48	12 x 48	Yes	Yes	Yes	2	2
	7.5° to 15°	64	12 x 36	12 x 45				118	18 x 60	18 x 60				2	2
	15° to 22.5°	62	12 x 39	12 x 51				100	18 x 60	12 x 66				2	2
	22.5° to 30°	59	12 x 39	12 x 63				81	12 x 48	12 x 72				2	2
	30° to 37.5°	61	12 x 39	12 x 69				72	12 x 42	18 x 63				2	2
	37.5° to 45°	65	12 x 36	18 x 66				68	12 x 39	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	68	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		111	12 x 51	12 x 51	Yes	Yes	Yes	2	2
	7.5° to 15°	61	12 x 39	12 x 48				113	18 x 60	18 x 60				2	2
	15° to 22.5°	58	12 x 42	12 x 54				94	18 x 60	12 x 69				2	2
	22.5° to 30°	56	12 x 42	12 x 66				75	18 x 60	18 x 63				2	2
	30° to 37.5°	57	12 x 39	12 x 72				67	12 x 45	18 x 66				2	2
	37.5° to 45°	61	12 x 39	18 x 69				63	12 x 39	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	66	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		107	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	58	12 x 42	12 x 51				108	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 42	12 x 57				88	18 x 60	12 x 72				2	2
	22.5° to 30°	52	12 x 45	12 x 66				71	18 x 60	18 x 63				2	2
	30° to 37.5°	54	12 x 42	18 x 63				63	12 x 45	18 x 66				2	2
	37.5° to 45°	58	12 x 42	18 x 72				59	12 x 42	18 x 72				2	2

20 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 20 psf	20 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	63	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		103	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 42	12 x 54				103	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 45	12 x 57				83	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 45	12 x 69				67	18 x 60	18 x 66				2	2
	30° to 37.5°	51	12 x 45	18 x 63				59	12 x 48	18 x 69				2	2
	37.5° to 45°	54	12 x 42	18 x 75				56	12 x 42	18 x 75				2	2

30 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 30 psf	30 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	81	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		132	12 x 30	12 x 30	Yes	Yes	Yes	2	2
	7.5° to 15°	77	12 x 30	12 x 33				144	12 x 33	12 x 42				2	2
	15° to 22.5°	76	12 x 30	12 x 39				155	18 x 60	18 x 60				2	2
	22.5° to 30°	75	12 x 30	12 x 48				126	12 x 36	12 x 60				2	2
	30° to 37.5°	78	12 x 30	12 x 54				112	12 x 30	12 x 63				2	2
	37.5° to 45°	82	12 x 30	12 x 60				106	12 x 30	12 x 66				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	81	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		131	12 x 30	12 x 30	Yes	Yes	Yes	2	2
	7.5° to 15°	76	12 x 30	12 x 33				141	18 x 60	12 x 45				2	2
	15° to 22.5°	74	12 x 30	12 x 39				148	18 x 60	18 x 60				2	2
	22.5° to 30°	73	12 x 30	12 x 48				119	12 x 36	12 x 60				2	2
	30° to 37.5°	76	12 x 30	12 x 54				106	12 x 33	12 x 63				2	2
	37.5° to 45°	80	12 x 30	12 x 63				100	12 x 30	12 x 69				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	79	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		129	12 x 33	12 x 33	Yes	Yes	Yes	2	2
	7.5° to 15°	74	12 x 30	12 x 33				138	18 x 60	12 x 48				2	2
	15° to 22.5°	72	12 x 30	12 x 42				140	18 x 60	18 x 60				2	2
	22.5° to 30°	71	12 x 30	12 x 51				113	12 x 39	12 x 63				2	2
	30° to 37.5°	74	12 x 30	12 x 57				101	12 x 33	12 x 66				2	2
	37.5° to 45°	78	12 x 30	12 x 66				95	12 x 30	12 x 72				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	78	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		127	12 x 33	12 x 33	Yes	Yes	Yes	2	2
	7.5° to 15°	73	12 x 30	12 x 36				135	18 x 60	12 x 48				2	2
	15° to 22.5°	71	12 x 30	12 x 42				134	18 x 60	18 x 60				2	2
	22.5° to 30°	70	12 x 30	12 x 51				108	12 x 39	12 x 63				2	2
	30° to 37.5°	72	12 x 30	12 x 57				96	12 x 36	12 x 66				2	2
	37.5° to 45°	76	12 x 30	12 x 66				91	12 x 30	12 x 72				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	77	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		125	12 x 36	12 x 36	Yes	Yes	Yes	2	2
	7.5° to 15°	71	12 x 30	12 x 36				132	18 x 60	18 x 60				2	2
	15° to 22.5°	69	12 x 30	12 x 45				128	18 x 60	18 x 60				2	2
	22.5° to 30°	68	12 x 33	12 x 54				103	12 x 42	12 x 66				2	2
	30° to 37.5°	70	12 x 30	12 x 60				91	12 x 36	12 x 69				2	2
	37.5° to 45°	74	12 x 30	12 x 69				86	12 x 33	18 x 60				2	2

30 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 30 psf	30 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	74	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		120	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	68	12 x 30	12 x 39				126	18 x 60	18 x 60				2	2
	15° to 22.5°	66	12 x 33	12 x 48				117	18 x 60	18 x 60				2	2
	22.5° to 30°	64	12 x 36	12 x 57				94	12 x 42	12 x 69				2	2
	30° to 37.5°	66	12 x 33	12 x 63				84	12 x 39	12 x 72				2	2
	37.5° to 45°	71	12 x 33	12 x 72				79	12 x 33	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	71	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		116	12 x 42	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	65	12 x 33	12 x 42				121	18 x 60	18 x 60				2	2
	15° to 22.5°	63	12 x 36	12 x 48				108	18 x 60	18 x 60				2	2
	22.5° to 30°	61	12 x 36	12 x 60				87	12 x 45	12 x 69				2	2
	30° to 37.5°	63	12 x 36	12 x 66				77	12 x 39	12 x 72				2	2
	37.5° to 45°	67	12 x 33	18 x 63				73	12 x 36	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	69	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		112	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	62	12 x 36	12 x 45				116	18 x 60	18 x 60				2	2
	15° to 22.5°	60	12 x 39	12 x 51				100	18 x 60	18 x 60				2	2
	22.5° to 30°	58	12 x 39	12 x 63				81	12 x 48	12 x 72				2	2
	30° to 37.5°	60	12 x 39	12 x 69				72	12 x 42	18 x 63				2	2
	37.5° to 45°	64	12 x 36	18 x 66				68	12 x 39	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	67	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		108	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	60	12 x 39	12 x 48				111	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 42	12 x 54				94	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 42	12 x 66				75	18 x 60	18 x 63				2	2
	30° to 37.5°	57	12 x 39	12 x 72				67	12 x 45	18 x 66				2	2
	37.5° to 45°	61	12 x 39	18 x 69				63	12 x 39	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	64	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		104	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	57	12 x 39	12 x 51				106	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 42	12 x 57				88	18 x 60	18 x 60				2	2
	22.5° to 30°	52	12 x 45	12 x 66				71	18 x 60	18 x 63				2	2
	30° to 37.5°	54	12 x 42	18 x 63				63	12 x 45	18 x 66				2	2
	37.5° to 45°	58	12 x 42	18 x 72				59	12 x 42	18 x 72				2	2

30 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 30 psf	30 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	62	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		101	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 42	12 x 54				102	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 45	12 x 57				83	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 45	12 x 69				67	18 x 60	18 x 66				2	2
	30° to 37.5°	51	12 x 45	18 x 63				59	12 x 48	18 x 69				2	2
	37.5° to 45°	54	12 x 42	18 x 75				56	12 x 42	18 x 75				2	2

40 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 40 psf	40 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	75	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		121	12 x 30	12 x 30	Yes	Yes	Yes	2	2
	7.5° to 15°	72	12 x 30	12 x 30				133	18 x 60	18 x 60				2	2
	15° to 22.5°	71	12 x 30	12 x 39				144	18 x 60	18 x 60				2	2
	22.5° to 30°	70	12 x 30	12 x 45				126	18 x 60	12 x 60				2	2
	30° to 37.5°	73	12 x 30	12 x 51				112	12 x 30	12 x 63				2	2
	37.5° to 45°	77	12 x 30	12 x 57				106	12 x 30	12 x 66				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	74	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		120	12 x 30	12 x 30	Yes	Yes	Yes	2	2
	7.5° to 15°	70	12 x 30	12 x 30				131	18 x 60	18 x 60				2	2
	15° to 22.5°	69	12 x 30	12 x 39				141	18 x 60	18 x 60				2	2
	22.5° to 30°	69	12 x 30	12 x 48				119	18 x 60	12 x 60				2	2
	30° to 37.5°	71	12 x 30	12 x 54				106	12 x 33	12 x 63				2	2
	37.5° to 45°	75	12 x 30	12 x 60				100	12 x 30	12 x 69				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	73	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		119	12 x 30	12 x 30	Yes	Yes	Yes	2	2
	7.5° to 15°	69	12 x 30	12 x 33				128	18 x 60	18 x 60				2	2
	15° to 22.5°	68	12 x 30	12 x 42				139	18 x 60	18 x 60				2	2
	22.5° to 30°	67	12 x 30	12 x 48				113	18 x 60	12 x 63				2	2
	30° to 37.5°	69	12 x 30	12 x 54				101	12 x 33	12 x 66				2	2
	37.5° to 45°	74	12 x 30	12 x 63				95	12 x 30	12 x 72				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	72	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		117	12 x 33	12 x 33	Yes	Yes	Yes	2	2
	7.5° to 15°	68	12 x 30	12 x 33				126	18 x 60	18 x 60				2	2
	15° to 22.5°	66	12 x 30	12 x 42				134	18 x 60	18 x 60				2	2
	22.5° to 30°	66	12 x 30	12 x 51				108	18 x 60	12 x 63				2	2
	30° to 37.5°	68	12 x 30	12 x 57				96	12 x 36	12 x 66				2	2
	37.5° to 45°	72	12 x 30	12 x 66				91	12 x 30	12 x 72				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	71	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		115	12 x 33	12 x 33	Yes	Yes	Yes	2	2
	7.5° to 15°	67	12 x 30	12 x 36				123	18 x 60	18 x 60				2	2
	15° to 22.5°	65	12 x 30	12 x 42				128	18 x 60	18 x 60				2	2
	22.5° to 30°	64	12 x 30	12 x 51				103	18 x 60	12 x 66				2	2
	30° to 37.5°	66	12 x 30	12 x 60				91	12 x 36	12 x 69				2	2
	37.5° to 45°	70	12 x 30	12 x 66				86	12 x 33	18 x 60				2	2

40 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 40 psf	40 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	69	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		112	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	64	12 x 30	12 x 39				119	18 x 60	18 x 60				2	2
	15° to 22.5°	62	12 x 33	12 x 45				117	18 x 60	18 x 60				2	2
	22.5° to 30°	61	12 x 33	12 x 57				94	18 x 60	12 x 69				2	2
	30° to 37.5°	63	12 x 33	12 x 63				84	12 x 39	12 x 72				2	2
	37.5° to 45°	67	12 x 30	12 x 72				79	12 x 33	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	67	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		109	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	62	12 x 33	12 x 42				114	18 x 60	18 x 60				2	2
	15° to 22.5°	60	12 x 36	12 x 48				108	18 x 60	18 x 60				2	2
	22.5° to 30°	59	12 x 36	12 x 60				87	18 x 60	12 x 69				2	2
	30° to 37.5°	60	12 x 36	12 x 66				77	12 x 39	12 x 72				2	2
	37.5° to 45°	64	12 x 33	18 x 63				73	12 x 36	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	65	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		105	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	59	12 x 36	12 x 45				110	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 39	12 x 51				100	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 39	12 x 60				81	18 x 60	12 x 72				2	2
	30° to 37.5°	58	12 x 36	12 x 69				72	12 x 42	18 x 63				2	2
	37.5° to 45°	62	12 x 36	18 x 66				68	12 x 39	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	63	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		102	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	57	12 x 36	12 x 48				106	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 39	12 x 54				94	18 x 60	18 x 60				2	2
	22.5° to 30°	54	12 x 42	12 x 63				75	18 x 60	18 x 63				2	2
	30° to 37.5°	55	12 x 39	12 x 72				67	12 x 45	18 x 66				2	2
	37.5° to 45°	59	12 x 39	18 x 69				63	12 x 39	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	61	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 39	12 x 48				102	18 x 60	18 x 60				2	2
	15° to 22.5°	53	12 x 42	12 x 54				88	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 42	12 x 66				71	18 x 60	18 x 63				2	2
	30° to 37.5°	53	12 x 42	18 x 63				63	12 x 45	18 x 66				2	2
	37.5° to 45°	56	12 x 39	18 x 72				59	12 x 42	18 x 72				2	2

40 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 40 psf	40 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		96	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 42	12 x 51				98	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 45	12 x 57				83	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 45	12 x 69				67	18 x 60	18 x 66				2	2
	30° to 37.5°	51	12 x 45	18 x 63				59	12 x 48	18 x 69				2	2
	37.5° to 45°	54	12 x 42	18 x 75				56	12 x 42	18 x 75				2	2

50 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 50 psf	50 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	69	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		112	12 x 30	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	67	12 x 30	12 x 33				124	18 x 60	18 x 60				2	2
	15° to 22.5°	66	12 x 30	12 x 36				136	18 x 60	18 x 60				2	2
	22.5° to 30°	66	12 x 30	12 x 45				126	18 x 60	18 x 60				2	2
	30° to 37.5°	69	12 x 30	12 x 51				112	12 x 30	12 x 63				2	2
	37.5° to 45°	73	12 x 30	12 x 57				106	12 x 30	12 x 66				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	69	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		112	12 x 30	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	66	12 x 30	12 x 33				122	18 x 60	18 x 60				2	2
	15° to 22.5°	65	12 x 30	12 x 39				133	18 x 60	18 x 60				2	2
	22.5° to 30°	65	12 x 30	12 x 45				119	18 x 60	18 x 60				2	2
	30° to 37.5°	67	12 x 30	12 x 51				106	12 x 33	12 x 63				2	2
	37.5° to 45°	71	12 x 30	12 x 60				100	12 x 30	12 x 69				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	68	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		111	12 x 30	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	65	12 x 30	12 x 33				120	18 x 60	18 x 60				2	2
	15° to 22.5°	64	12 x 30	12 x 39				131	18 x 60	18 x 60				2	2
	22.5° to 30°	64	12 x 30	12 x 48				113	18 x 60	18 x 60				2	2
	30° to 37.5°	66	12 x 30	12 x 54				101	12 x 33	12 x 66				2	2
	37.5° to 45°	70	12 x 30	12 x 63				95	12 x 30	12 x 72				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	67	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		109	12 x 30	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	64	12 x 30	12 x 33				118	18 x 60	18 x 60				2	2
	15° to 22.5°	63	12 x 30	12 x 42				128	18 x 60	18 x 60				2	2
	22.5° to 30°	62	12 x 30	12 x 51				108	18 x 60	18 x 60				2	2
	30° to 37.5°	64	12 x 30	12 x 57				96	12 x 36	12 x 66				2	2
	37.5° to 45°	69	12 x 30	12 x 63				91	12 x 30	12 x 72				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	66	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		108	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	63	12 x 30	12 x 36				116	18 x 60	18 x 60				2	2
	15° to 22.5°	62	12 x 30	12 x 42				126	18 x 60	18 x 60				2	2
	22.5° to 30°	61	12 x 30	12 x 51				103	18 x 60	18 x 60				2	2
	30° to 37.5°	63	12 x 30	12 x 57				91	12 x 36	12 x 69				2	2
	37.5° to 45°	67	12 x 30	12 x 66				86	12 x 33	18 x 60				2	2

50 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 50 psf	50 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	65	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		105	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	61	12 x 30	12 x 36				113	18 x 60	18 x 60				2	2
	15° to 22.5°	59	12 x 33	12 x 45				117	18 x 60	18 x 60				2	2
	22.5° to 30°	59	12 x 33	12 x 54				94	18 x 60	18 x 60				2	2
	30° to 37.5°	61	12 x 30	12 x 60				84	12 x 39	12 x 72				2	2
	37.5° to 45°	64	12 x 30	12 x 69				79	12 x 33	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	63	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		102	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	59	12 x 33	12 x 39				109	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 33	12 x 48				108	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 36	12 x 57				87	18 x 60	18 x 60				2	2
	30° to 37.5°	58	12 x 33	12 x 63				77	12 x 39	12 x 72				2	2
	37.5° to 45°	62	12 x 33	18 x 60				73	12 x 36	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	61	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	57	12 x 33	12 x 42				105	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 36	12 x 51				100	18 x 60	18 x 60				2	2
	22.5° to 30°	54	12 x 39	12 x 60				81	18 x 60	18 x 60				2	2
	30° to 37.5°	56	12 x 36	12 x 69				72	12 x 42	18 x 63				2	2
	37.5° to 45°	59	12 x 36	18 x 63				68	12 x 39	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		97	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 36	12 x 45				101	18 x 60	18 x 60				2	2
	15° to 22.5°	53	12 x 39	12 x 51				94	18 x 60	18 x 60				2	2
	22.5° to 30°	52	12 x 39	12 x 63				75	18 x 60	18 x 63				2	2
	30° to 37.5°	53	12 x 39	12 x 72				67	12 x 45	18 x 66				2	2
	37.5° to 45°	57	12 x 36	18 x 66				63	12 x 39	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	58	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 39	12 x 48				98	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 42	12 x 54				88	18 x 60	18 x 60				2	2
	22.5° to 30°	50	12 x 42	12 x 66				71	18 x 60	18 x 63				2	2
	30° to 37.5°	51	12 x 42	18 x 60				63	12 x 45	18 x 66				2	2
	37.5° to 45°	55	12 x 39	18 x 69				59	12 x 42	18 x 72				2	2

50 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 50 psf	50 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	56	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		91	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 42	12 x 51				94	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 45	12 x 57				83	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 45	12 x 69				67	18 x 60	18 x 66				2	2
	30° to 37.5°	49	12 x 42	18 x 63				59	18 x 60	18 x 69				2	2
	37.5° to 45°	53	12 x 42	18 x 72				56	12 x 42	18 x 75				2	2

60 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 60 psf	60 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	63	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		103	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	63	12 x 30	12 x 33				117	18 x 60	18 x 60				2	2
	15° to 22.5°	63	12 x 30	12 x 36				128	18 x 60	18 x 60				2	2
	22.5° to 30°	63	12 x 30	12 x 45				126	18 x 60	18 x 60				2	2
	30° to 37.5°	65	12 x 30	12 x 48				112	18 x 60	18 x 60				2	2
	37.5° to 45°	69	12 x 30	12 x 57				106	12 x 30	12 x 66				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	63	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		103	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	62	12 x 30	12 x 33				116	18 x 60	18 x 60				2	2
	15° to 22.5°	62	12 x 30	12 x 39				126	18 x 60	18 x 60				2	2
	22.5° to 30°	62	12 x 30	12 x 45				119	18 x 60	18 x 60				2	2
	30° to 37.5°	64	12 x 30	12 x 51				106	18 x 60	12 x 63				2	2
	37.5° to 45°	68	12 x 30	12 x 57				100	12 x 30	12 x 69				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	63	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		103	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	61	12 x 30	12 x 33				114	18 x 60	18 x 60				2	2
	15° to 22.5°	61	12 x 30	12 x 39				124	18 x 60	18 x 60				2	2
	22.5° to 30°	61	12 x 30	12 x 48				113	18 x 60	18 x 60				2	2
	30° to 37.5°	63	12 x 30	12 x 54				101	18 x 60	12 x 66				2	2
	37.5° to 45°	67	12 x 30	12 x 60				95	12 x 30	12 x 72				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	63	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		103	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	60	12 x 30	12 x 33				112	18 x 60	18 x 60				2	2
	15° to 22.5°	60	12 x 30	12 x 39				122	18 x 60	18 x 60				2	2
	22.5° to 30°	60	12 x 30	12 x 48				108	18 x 60	18 x 60				2	2
	30° to 37.5°	62	12 x 30	12 x 54				96	18 x 60	12 x 66				2	2
	37.5° to 45°	65	12 x 30	12 x 63				91	12 x 30	12 x 72				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	62	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		102	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	60	12 x 30	12 x 36				111	18 x 60	18 x 60				2	2
	15° to 22.5°	59	12 x 30	12 x 42				120	18 x 60	18 x 60				2	2
	22.5° to 30°	58	12 x 30	12 x 51				103	18 x 60	18 x 60				2	2
	30° to 37.5°	60	12 x 30	12 x 57				91	18 x 60	12 x 69				2	2
	37.5° to 45°	64	12 x 30	12 x 66				86	12 x 33	18 x 60				2	2

60 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 60 psf	60 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	61	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	58	12 x 30	12 x 36				107	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 30	12 x 45				116	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 33	12 x 54				94	18 x 60	18 x 60				2	2
	30° to 37.5°	58	12 x 30	12 x 60				84	18 x 60	12 x 72				2	2
	37.5° to 45°	62	12 x 30	12 x 69				79	12 x 33	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	60	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		97	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 30	12 x 39				104	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 33	12 x 45				108	18 x 60	18 x 60				2	2
	22.5° to 30°	54	12 x 36	12 x 57				87	18 x 60	18 x 60				2	2
	30° to 37.5°	56	12 x 33	12 x 63				77	18 x 60	12 x 72				2	2
	37.5° to 45°	60	12 x 33	12 x 72				73	12 x 36	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	58	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	54	12 x 33	12 x 42				101	18 x 60	18 x 60				2	2
	15° to 22.5°	53	12 x 36	12 x 48				100	18 x 60	18 x 60				2	2
	22.5° to 30°	52	12 x 36	12 x 60				81	18 x 60	18 x 60				2	2
	30° to 37.5°	54	12 x 36	12 x 66				72	18 x 60	18 x 63				2	2
	37.5° to 45°	57	12 x 33	18 x 63				68	12 x 39	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	57	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		92	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 36	12 x 45				97	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 39	12 x 51				94	18 x 60	18 x 60				2	2
	22.5° to 30°	50	12 x 39	12 x 63				75	18 x 60	18 x 63				2	2
	30° to 37.5°	52	12 x 39	12 x 69				67	18 x 60	18 x 66				2	2
	37.5° to 45°	55	12 x 36	18 x 66				63	12 x 39	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 39	12 x 48				94	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 42	12 x 54				88	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 42	12 x 66				71	18 x 60	18 x 63				2	2
	30° to 37.5°	50	12 x 39	12 x 72				63	18 x 60	18 x 66				2	2
	37.5° to 45°	53	12 x 39	18 x 69				59	12 x 42	18 x 72				2	2

60 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 60 psf	60 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	54	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		87	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 39	12 x 51				91	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 42	12 x 54				83	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 45	12 x 66				67	18 x 60	18 x 66				2	2
	30° to 37.5°	48	12 x 42	18 x 63				59	18 x 60	18 x 69				2	2
	37.5° to 45°	51	12 x 42	18 x 72				56	12 x 42	18 x 75				2	2

70 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 70 psf	70 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		96	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	60	12 x 30	12 x 33				111	18 x 60	18 x 60				2	2
	15° to 22.5°	60	12 x 30	12 x 36				122	18 x 60	18 x 60				2	2
	22.5° to 30°	60	12 x 30	12 x 42				126	18 x 60	18 x 60				2	2
	30° to 37.5°	62	12 x 30	12 x 48				112	18 x 60	18 x 60				2	2
	37.5° to 45°	66	12 x 30	12 x 54				106	12 x 30	12 x 66				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		96	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	59	12 x 30	12 x 33				110	18 x 60	18 x 60				2	2
	15° to 22.5°	59	12 x 30	12 x 39				120	18 x 60	18 x 60				2	2
	22.5° to 30°	59	12 x 30	12 x 45				119	18 x 60	18 x 60				2	2
	30° to 37.5°	61	12 x 30	12 x 51				106	18 x 60	18 x 60				2	2
	37.5° to 45°	65	12 x 30	12 x 57				100	12 x 30	12 x 69				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		96	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	58	12 x 30	12 x 33				108	18 x 60	18 x 60				2	2
	15° to 22.5°	58	12 x 30	12 x 39				118	18 x 60	18 x 60				2	2
	22.5° to 30°	58	12 x 30	12 x 45				113	18 x 60	18 x 60				2	2
	30° to 37.5°	60	12 x 30	12 x 51				101	18 x 60	18 x 60				2	2
	37.5° to 45°	64	12 x 30	12 x 60				95	12 x 30	12 x 72				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		96	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	58	12 x 30	12 x 33				107	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 30	12 x 39				117	18 x 60	18 x 60				2	2
	22.5° to 30°	57	12 x 30	12 x 48				108	18 x 60	18 x 60				2	2
	30° to 37.5°	59	12 x 30	12 x 54				96	18 x 60	18 x 60				2	2
	37.5° to 45°	63	12 x 30	12 x 60				91	12 x 30	12 x 72				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		96	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	57	12 x 30	12 x 36				105	18 x 60	18 x 60				2	2
	15° to 22.5°	56	12 x 30	12 x 42				115	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 30	12 x 48				103	18 x 60	18 x 60				2	2
	30° to 37.5°	58	12 x 30	12 x 54				91	18 x 60	18 x 60				2	2
	37.5° to 45°	62	12 x 30	12 x 63				86	12 x 33	18 x 60				2	2

70 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 70 psf	70 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	58	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 30	12 x 36				102	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 30	12 x 42				111	18 x 60	18 x 60				2	2
	22.5° to 30°	54	12 x 30	12 x 54				94	18 x 60	18 x 60				2	2
	30° to 37.5°	56	12 x 30	12 x 60				84	18 x 60	18 x 60				2	2
	37.5° to 45°	60	12 x 30	12 x 69				79	12 x 33	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	57	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		92	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	54	12 x 30	12 x 39				100	18 x 60	18 x 60				2	2
	15° to 22.5°	53	12 x 33	12 x 45				108	18 x 60	18 x 60				2	2
	22.5° to 30°	52	12 x 33	12 x 57				87	18 x 60	18 x 60				2	2
	30° to 37.5°	54	12 x 33	12 x 63				77	18 x 60	12 x 72				2	2
	37.5° to 45°	57	12 x 30	12 x 72				73	12 x 36	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 33	12 x 42				97	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 36	12 x 48				100	18 x 60	18 x 60				2	2
	22.5° to 30°	50	12 x 36	12 x 57				81	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 36	12 x 66				72	18 x 60	18 x 63				2	2
	37.5° to 45°	55	12 x 33	18 x 63				68	12 x 39	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	54	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		88	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 36	12 x 45				94	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 39	12 x 51				94	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 39	12 x 60				75	18 x 60	18 x 63				2	2
	30° to 37.5°	50	12 x 36	12 x 69				67	18 x 60	18 x 66				2	2
	37.5° to 45°	54	12 x 36	18 x 66				63	12 x 39	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	53	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		86	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 36	12 x 45				91	18 x 60	18 x 60				2	2
	15° to 22.5°	48	12 x 39	12 x 51				88	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 42	12 x 63				71	18 x 60	18 x 63				2	2
	30° to 37.5°	48	12 x 39	12 x 72				63	18 x 60	18 x 66				2	2
	37.5° to 45°	52	12 x 39	18 x 69				59	12 x 42	18 x 72				2	2

70 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 70 psf	70 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		84	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 39	12 x 48				88	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 42	12 x 54				83	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 42	12 x 66				67	18 x 60	18 x 66				2	2
	30° to 37.5°	47	12 x 42	18 x 63				59	18 x 60	18 x 69				2	2
	37.5° to 45°	50	12 x 39	18 x 72				56	12 x 42	18 x 75				2	2

80 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 80 psf	80 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 30	12 x 36				104	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 30	12 x 36				117	18 x 60	18 x 60				2	2
	22.5° to 30°	58	12 x 30	12 x 42				126	18 x 60	18 x 60				2	2
	30° to 37.5°	60	12 x 30	12 x 48				112	18 x 60	18 x 60				2	2
	37.5° to 45°	63	12 x 30	12 x 54				106	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 30	12 x 36				104	18 x 60	18 x 60				2	2
	15° to 22.5°	56	12 x 30	12 x 39				115	18 x 60	18 x 60				2	2
	22.5° to 30°	57	12 x 30	12 x 45				119	18 x 60	18 x 60				2	2
	30° to 37.5°	59	12 x 30	12 x 48				106	18 x 60	18 x 60				2	2
	37.5° to 45°	62	12 x 30	12 x 57				100	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 30	12 x 36				104	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 30	12 x 39				113	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 30	12 x 45				113	18 x 60	18 x 60				2	2
	30° to 37.5°	58	12 x 30	12 x 51				101	18 x 60	18 x 60				2	2
	37.5° to 45°	61	12 x 30	12 x 57				95	18 x 60	18 x 60				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 30	12 x 33				102	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 30	12 x 39				112	18 x 60	18 x 60				2	2
	22.5° to 30°	55	12 x 30	12 x 48				108	18 x 60	18 x 60				2	2
	30° to 37.5°	57	12 x 30	12 x 54				96	18 x 60	18 x 60				2	2
	37.5° to 45°	60	12 x 30	12 x 60				91	18 x 60	18 x 60				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	54	12 x 30	12 x 36				101	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 30	12 x 39				110	18 x 60	18 x 60				2	2
	22.5° to 30°	54	12 x 30	12 x 48				103	18 x 60	18 x 60				2	2
	30° to 37.5°	56	12 x 30	12 x 54				91	18 x 60	18 x 60				2	2
	37.5° to 45°	59	12 x 30	12 x 63				86	18 x 60	18 x 60				2	2

80 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 80 psf	80 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 30	12 x 36				98	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 30	12 x 42				107	18 x 60	18 x 60				2	2
	22.5° to 30°	52	12 x 30	12 x 51				94	18 x 60	18 x 60				2	2
	30° to 37.5°	54	12 x 30	12 x 57				84	18 x 60	18 x 60				2	2
	37.5° to 45°	58	12 x 30	12 x 66				79	12 x 33	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	54	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		88	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 30	12 x 36				96	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 33	12 x 45				104	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 33	12 x 54				87	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 33	12 x 60				77	18 x 60	18 x 60				2	2
	37.5° to 45°	56	12 x 30	12 x 69				73	12 x 36	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	53	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		86	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	50	12 x 33	12 x 39				93	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 36	12 x 48				100	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 36	12 x 57				81	18 x 60	18 x 60				2	2
	30° to 37.5°	50	12 x 33	12 x 66				72	18 x 60	18 x 63				2	2
	37.5° to 45°	54	12 x 33	18 x 63				68	12 x 39	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		85	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 33	12 x 42				91	18 x 60	18 x 60				2	2
	15° to 22.5°	48	12 x 36	12 x 51				94	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 39	12 x 60				75	18 x 60	18 x 63				2	2
	30° to 37.5°	49	12 x 36	12 x 69				67	18 x 60	18 x 66				2	2
	37.5° to 45°	52	12 x 36	18 x 66				63	12 x 39	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		83	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 36	12 x 45				88	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 39	12 x 51				88	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 39	12 x 63				71	18 x 60	18 x 63				2	2
	30° to 37.5°	47	12 x 39	12 x 72				63	18 x 60	18 x 66				2	2
	37.5° to 45°	50	12 x 39	18 x 69				59	12 x 42	18 x 72				2	2

80 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 80 psf	80 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		81	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 39	12 x 48				86	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 42	12 x 54				83	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 42	12 x 66				67	18 x 60	18 x 66				2	2
	30° to 37.5°	46	12 x 42	18 x 60				59	18 x 60	18 x 69				2	2
	37.5° to 45°	49	12 x 39	18 x 69				56	12 x 42	18 x 75				2	2

90 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 90 psf	90 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		85	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 30	12 x 36				99	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 30	12 x 36				111	18 x 60	18 x 60				2	2
	22.5° to 30°	55	12 x 30	12 x 42				122	18 x 60	18 x 60				2	2
	30° to 37.5°	57	12 x 30	12 x 45				112	18 x 60	18 x 60				2	2
	37.5° to 45°	61	12 x 30	12 x 54				106	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		85	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 30	12 x 36				99	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 30	12 x 39				110	18 x 60	18 x 60				2	2
	22.5° to 30°	55	12 x 30	12 x 42				119	18 x 60	18 x 60				2	2
	30° to 37.5°	57	12 x 30	12 x 48				106	18 x 60	18 x 60				2	2
	37.5° to 45°	60	12 x 30	12 x 54				100	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		85	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 30	12 x 36				99	18 x 60	18 x 60				2	2
	15° to 22.5°	53	12 x 30	12 x 39				109	18 x 60	18 x 60				2	2
	22.5° to 30°	54	12 x 30	12 x 45				113	18 x 60	18 x 60				2	2
	30° to 37.5°	56	12 x 30	12 x 51				101	18 x 60	18 x 60				2	2
	37.5° to 45°	59	12 x 30	12 x 57				95	18 x 60	18 x 60				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		85	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 30	12 x 36				98	18 x 60	18 x 60				2	2
	15° to 22.5°	53	12 x 30	12 x 39				108	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 30	12 x 45				108	18 x 60	18 x 60				2	2
	30° to 37.5°	55	12 x 30	12 x 51				96	18 x 60	18 x 60				2	2
	37.5° to 45°	58	12 x 30	12 x 60				91	18 x 60	18 x 60				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		85	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 30	12 x 36				97	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 30	12 x 39				106	18 x 60	18 x 60				2	2
	22.5° to 30°	52	12 x 30	12 x 48				103	18 x 60	18 x 60				2	2
	30° to 37.5°	54	12 x 30	12 x 54				91	18 x 60	18 x 60				2	2
	37.5° to 45°	57	12 x 30	12 x 60				86	18 x 60	18 x 60				2	2

90 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 90 psf	90 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		85	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 30	12 x 36				95	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 30	12 x 42				103	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 30	12 x 51				94	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 30	12 x 57				84	18 x 60	18 x 60				2	2
	37.5° to 45°	56	12 x 30	12 x 66				79	18 x 60	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		85	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	50	12 x 30	12 x 36				92	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 33	12 x 45				100	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 33	12 x 54				87	18 x 60	18 x 60				2	2
	30° to 37.5°	51	12 x 30	12 x 60				77	18 x 60	18 x 60				2	2
	37.5° to 45°	54	12 x 30	12 x 69				73	18 x 60	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		83	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 30	12 x 39				90	18 x 60	18 x 60				2	2
	15° to 22.5°	48	12 x 33	12 x 48				98	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 36	12 x 57				81	18 x 60	18 x 60				2	2
	30° to 37.5°	49	12 x 33	12 x 63				72	18 x 60	18 x 63				2	2
	37.5° to 45°	52	12 x 33	12 x 72				68	18 x 60	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 33	12 x 42				88	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 36	12 x 48				94	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 39	12 x 60				75	18 x 60	18 x 63				2	2
	30° to 37.5°	47	12 x 36	12 x 66				67	18 x 60	18 x 66				2	2
	37.5° to 45°	51	12 x 36	18 x 63				63	18 x 60	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		80	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 36	12 x 45				85	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 39	12 x 51				88	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 39	12 x 63				71	18 x 60	18 x 63				2	2
	30° to 37.5°	46	12 x 39	12 x 69				63	18 x 60	18 x 66				2	2
	37.5° to 45°	49	12 x 36	18 x 66				59	18 x 60	18 x 72				2	2

90 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 90 psf	90 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	45	12 x 39	12 x 48				83	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 42	12 x 54				83	18 x 60	18 x 60				2	2
	22.5° to 30°	43	12 x 42	12 x 66				67	18 x 60	18 x 66				2	2
	30° to 37.5°	44	12 x 42	12 x 72				59	18 x 60	18 x 69				2	2
	37.5° to 45°	48	12 x 39	18 x 69				56	18 x 60	18 x 75				2	2

100 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 100 psf	100 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		81	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 30	12 x 36				94	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 30	12 x 36				105	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 30	12 x 39				117	18 x 60	18 x 60				2	2
	30° to 37.5°	55	12 x 30	12 x 45				112	18 x 60	18 x 60				2	2
	37.5° to 45°	59	12 x 30	12 x 51				106	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		81	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 30	12 x 36				94	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 30	12 x 39				105	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 30	12 x 42				116	18 x 60	18 x 60				2	2
	30° to 37.5°	55	12 x 30	12 x 48				106	18 x 60	18 x 60				2	2
	37.5° to 45°	58	12 x 30	12 x 54				100	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		81	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 30	12 x 36				94	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 30	12 x 39				105	18 x 60	18 x 60				2	2
	22.5° to 30°	52	12 x 30	12 x 45				113	18 x 60	18 x 60				2	2
	30° to 37.5°	54	12 x 30	12 x 48				101	18 x 60	18 x 60				2	2
	37.5° to 45°	57	12 x 30	12 x 57				95	18 x 60	18 x 60				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		81	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 30	12 x 36				94	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 30	12 x 39				104	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 30	12 x 45				108	18 x 60	18 x 60				2	2
	30° to 37.5°	53	12 x 30	12 x 51				96	18 x 60	18 x 60				2	2
	37.5° to 45°	56	12 x 30	12 x 57				91	18 x 60	18 x 60				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		81	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	50	12 x 30	12 x 36				94	18 x 60	18 x 60				2	2
	15° to 22.5°	50	12 x 30	12 x 39				103	18 x 60	18 x 60				2	2
	22.5° to 30°	50	12 x 30	12 x 48				103	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 30	12 x 54				91	18 x 60	18 x 60				2	2
	37.5° to 45°	56	12 x 30	12 x 60				86	18 x 60	18 x 60				2	2

100 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 100 psf	100 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		81	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 30	12 x 36				91	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 42				100	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 30	12 x 51				94	18 x 60	18 x 60				2	2
	30° to 37.5°	51	12 x 30	12 x 57				84	18 x 60	18 x 60				2	2
	37.5° to 45°	54	12 x 30	12 x 66				79	18 x 60	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		81	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 36				89	18 x 60	18 x 60				2	2
	15° to 22.5°	48	12 x 30	12 x 45				97	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 33	12 x 54				87	18 x 60	18 x 60				2	2
	30° to 37.5°	49	12 x 30	12 x 60				77	18 x 60	18 x 60				2	2
	37.5° to 45°	52	12 x 30	12 x 69				73	18 x 60	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		80	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 30	12 x 39				87	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 33	12 x 45				95	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 36	12 x 57				81	18 x 60	18 x 60				2	2
	30° to 37.5°	48	12 x 33	12 x 63				72	18 x 60	18 x 63				2	2
	37.5° to 45°	51	12 x 33	12 x 72				68	18 x 60	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		79	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 33	12 x 42				85	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 36	12 x 48				92	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 36	12 x 60				75	18 x 60	18 x 63				2	2
	30° to 37.5°	46	12 x 36	12 x 66				67	18 x 60	18 x 66				2	2
	37.5° to 45°	49	12 x 33	18 x 63				63	18 x 60	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	47	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		77	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	45	12 x 36	12 x 45				83	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 39	12 x 51				88	18 x 60	18 x 60				2	2
	22.5° to 30°	43	12 x 39	12 x 63				71	18 x 60	18 x 63				2	2
	30° to 37.5°	45	12 x 39	12 x 69				63	18 x 60	18 x 66				2	2
	37.5° to 45°	48	12 x 36	18 x 66				59	18 x 60	18 x 72				2	2

100 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 100 psf	100 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	47	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		76	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 36	12 x 48				81	18 x 60	18 x 60				2	2
	15° to 22.5°	43	12 x 39	12 x 54				83	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 42	12 x 63				67	18 x 60	18 x 66				2	2
	30° to 37.5°	44	12 x 39	12 x 72				59	18 x 60	18 x 69				2	2
	37.5° to 45°	46	12 x 39	18 x 69				56	18 x 60	18 x 75				2	2

110 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 110 psf	110 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 36				90	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 36				101	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 30	12 x 39				112	18 x 60	18 x 60				2	2
	30° to 37.5°	53	12 x 30	12 x 45				112	18 x 60	18 x 60				2	2
	37.5° to 45°	56	12 x 30	12 x 51				106	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 36				90	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 36				101	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 30	12 x 42				112	18 x 60	18 x 60				2	2
	30° to 37.5°	53	12 x 30	12 x 48				106	18 x 60	18 x 60				2	2
	37.5° to 45°	56	12 x 30	12 x 54				100	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 36				90	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 39				101	18 x 60	18 x 60				2	2
	22.5° to 30°	50	12 x 30	12 x 42				110	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 30	12 x 48				101	18 x 60	18 x 60				2	2
	37.5° to 45°	55	12 x 30	12 x 54				95	18 x 60	18 x 60				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 36				90	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 39				100	18 x 60	18 x 60				2	2
	22.5° to 30°	50	12 x 30	12 x 45				108	18 x 60	18 x 60				2	2
	30° to 37.5°	51	12 x 30	12 x 51				96	18 x 60	18 x 60				2	2
	37.5° to 45°	55	12 x 30	12 x 57				91	18 x 60	18 x 60				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 36				90	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 39				99	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 30	12 x 48				103	18 x 60	18 x 60				2	2
	30° to 37.5°	51	12 x 30	12 x 51				91	18 x 60	18 x 60				2	2
	37.5° to 45°	54	12 x 30	12 x 60				86	18 x 60	18 x 60				2	2

110 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 110 psf	110 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 36				88	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 42				97	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 30	12 x 51				94	18 x 60	18 x 60				2	2
	30° to 37.5°	49	12 x 30	12 x 57				84	18 x 60	18 x 60				2	2
	37.5° to 45°	52	12 x 30	12 x 63				79	18 x 60	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 30	12 x 36				87	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 30	12 x 42				94	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 33	12 x 54				87	18 x 60	18 x 60				2	2
	30° to 37.5°	48	12 x 30	12 x 60				77	18 x 60	18 x 60				2	2
	37.5° to 45°	51	12 x 30	12 x 69				73	18 x 60	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 39				85	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 33	12 x 45				92	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 33	12 x 57				81	18 x 60	18 x 60				2	2
	30° to 37.5°	47	12 x 33	12 x 63				72	18 x 60	18 x 63				2	2
	37.5° to 45°	50	12 x 33	12 x 72				68	18 x 60	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	47	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		76	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	45	12 x 33	12 x 42				83	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 36	12 x 48				89	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 36	12 x 57				75	18 x 60	18 x 63				2	2
	30° to 37.5°	45	12 x 36	12 x 66				67	18 x 60	18 x 66				2	2
	37.5° to 45°	48	12 x 33	18 x 63				63	18 x 60	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		75	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 33	12 x 42				81	18 x 60	18 x 60				2	2
	15° to 22.5°	43	12 x 39	12 x 51				85	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 39	12 x 60				71	18 x 60	18 x 63				2	2
	30° to 37.5°	44	12 x 36	12 x 69				63	18 x 60	18 x 66				2	2
	37.5° to 45°	47	12 x 36	18 x 66				59	18 x 60	18 x 72				2	2

110 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 110 psf	110 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		73	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	43	12 x 36	12 x 45				79	18 x 60	18 x 60				2	2
	15° to 22.5°	42	12 x 39	12 x 51				80	18 x 60	18 x 60				2	2
	22.5° to 30°	41	18 x 60	12 x 63				67	18 x 60	18 x 66				2	2
	30° to 37.5°	43	12 x 39	12 x 72				59	18 x 60	18 x 69				2	2
	37.5° to 45°	45	12 x 39	18 x 69				56	18 x 60	18 x 75				2	2

120 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 120 psf	120 Snow 3-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 36				86	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 36				97	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 30	12 x 39				107	18 x 60	18 x 60				2	2
	30° to 37.5°	51	12 x 30	12 x 45				112	18 x 60	18 x 60				2	2
	37.5° to 45°	54	12 x 30	12 x 51				106	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 36				86	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 36				97	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 30	12 x 42				107	18 x 60	18 x 60				2	2
	30° to 37.5°	51	12 x 30	12 x 45				106	18 x 60	18 x 60				2	2
	37.5° to 45°	54	12 x 30	12 x 51				100	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 36				86	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 39				97	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 30	12 x 42				107	18 x 60	18 x 60				2	2
	30° to 37.5°	51	12 x 30	12 x 48				101	18 x 60	18 x 60				2	2
	37.5° to 45°	54	12 x 30	12 x 54				95	18 x 60	18 x 60				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 36				86	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 39				97	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 30	12 x 45				106	18 x 60	18 x 60				2	2
	30° to 37.5°	50	12 x 30	12 x 51				96	18 x 60	18 x 60				2	2
	37.5° to 45°	53	12 x 30	12 x 57				91	18 x 60	18 x 60				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 36				86	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 39				96	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 30	12 x 45				103	18 x 60	18 x 60				2	2
	30° to 37.5°	49	12 x 30	12 x 51				91	18 x 60	18 x 60				2	2
	37.5° to 45°	52	12 x 30	12 x 60				86	18 x 60	18 x 60				2	2

120 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 120 psf	120 Snow 3-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 36				86	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 30	12 x 42				94	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 30	12 x 48				94	18 x 60	18 x 60				2	2
	30° to 37.5°	48	12 x 30	12 x 54				84	18 x 60	18 x 60				2	2
	37.5° to 45°	51	12 x 30	12 x 63				79	18 x 60	18 x 63				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	45	12 x 30	12 x 36				84	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 30	12 x 42				92	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 30	12 x 51				87	18 x 60	18 x 60				2	2
	30° to 37.5°	47	12 x 30	12 x 57				77	18 x 60	18 x 60				2	2
	37.5° to 45°	50	12 x 30	12 x 66				73	18 x 60	18 x 66				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 30	12 x 39				82	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 33	12 x 45				89	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 33	12 x 54				81	18 x 60	18 x 60				2	2
	30° to 37.5°	45	12 x 33	12 x 63				72	18 x 60	18 x 63				2	2
	37.5° to 45°	48	12 x 30	12 x 72				68	18 x 60	18 x 69				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	43	12 x 33	12 x 39				81	18 x 60	18 x 60				2	2
	15° to 22.5°	43	12 x 36	12 x 48				85	18 x 60	18 x 60				2	2
	22.5° to 30°	43	12 x 36	12 x 57				75	18 x 60	18 x 63				2	2
	30° to 37.5°	44	12 x 36	12 x 66				67	18 x 60	18 x 66				2	2
	37.5° to 45°	47	12 x 33	18 x 63				63	18 x 60	18 x 72				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		73	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	42	12 x 33	12 x 42				79	18 x 60	18 x 60				2	2
	15° to 22.5°	42	12 x 36	12 x 48				81	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 39	12 x 60				71	18 x 60	18 x 63				2	2
	30° to 37.5°	43	12 x 36	12 x 69				63	18 x 60	18 x 66				2	2
	37.5° to 45°	46	12 x 36	18 x 66				59	18 x 60	18 x 72				2	2

120 Snow 3-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 3-Module Panels Ground Snow Load up to 120 psf	120 Snow 3-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	44	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	41	12 x 36	12 x 45				77	18 x 60	18 x 60				2	2
	15° to 22.5°	41	18 x 60	12 x 51				77	18 x 60	18 x 60				2	2
	22.5° to 30°	40	18 x 60	12 x 63				67	18 x 60	18 x 66				2	2
	30° to 37.5°	42	12 x 39	12 x 72				59	18 x 60	18 x 69				2	2
	37.5° to 45°	45	12 x 39	18 x 69				56	18 x 60	18 x 75				2	2

0 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Snow-Free Region	0 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	97	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		166	12 x 42	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	85	12 x 30	12 x 36				170	12 x 42	12 x 54				2	2
	15° to 22.5°	80	12 x 30	12 x 45				135	12 x 42	12 x 57				2	2
	22.5° to 30°	76	12 x 30	12 x 54				109	12 x 39	12 x 63				2	2
	30° to 37.5°	78	12 x 30	12 x 60				97	12 x 33	12 x 66				2	2
	37.5° to 45°	83	12 x 30	12 x 69				91	12 x 30	12 x 72				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	95	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		162	12 x 42	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	81	12 x 30	12 x 39				163	18 x 60	12 x 57				2	2
	15° to 22.5°	76	12 x 33	12 x 45				128	12 x 42	12 x 60				2	2
	22.5° to 30°	73	12 x 33	12 x 54				103	12 x 39	12 x 66				2	2
	30° to 37.5°	74	12 x 30	12 x 63				92	12 x 36	12 x 69				2	2
	37.5° to 45°	79	12 x 30	12 x 72				87	12 x 30	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	91	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		156	12 x 42	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	78	12 x 30	12 x 39				156	18 x 60	12 x 60				2	2
	15° to 22.5°	73	12 x 33	12 x 48				122	12 x 45	12 x 60				2	2
	22.5° to 30°	70	12 x 33	12 x 57				98	12 x 42	12 x 66				2	2
	30° to 37.5°	71	12 x 33	12 x 63				87	12 x 36	12 x 69				2	2
	37.5° to 45°	76	12 x 30	12 x 72				82	12 x 33	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	87	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		150	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	75	12 x 33	12 x 42				150	18 x 60	18 x 60				2	2
	15° to 22.5°	70	12 x 36	12 x 48				116	12 x 48	12 x 60				2	2
	22.5° to 30°	67	12 x 36	12 x 57				93	12 x 42	12 x 69				2	2
	30° to 37.5°	68	12 x 33	12 x 66				83	12 x 39	12 x 72				2	2
	37.5° to 45°	73	12 x 33	18 x 63				78	12 x 33	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	84	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		144	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	72	12 x 33	12 x 42				144	18 x 60	18 x 60				2	2
	15° to 22.5°	67	12 x 36	12 x 51				110	18 x 60	12 x 63				2	2
	22.5° to 30°	64	12 x 36	12 x 60				89	12 x 45	12 x 69				2	2
	30° to 37.5°	65	12 x 36	12 x 66				79	12 x 39	12 x 72				2	2
	37.5° to 45°	70	12 x 33	18 x 63				75	12 x 36	18 x 66				2	2

0 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Snow-Free Region	0 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	78	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		134	12 x 48	12 x 48	Yes	Yes	Yes	2	2
	7.5° to 15°	66	12 x 36	12 x 45				133	18 x 60	18 x 60				2	2
	15° to 22.5°	62	12 x 39	12 x 51				101	18 x 60	12 x 66				2	2
	22.5° to 30°	59	12 x 39	12 x 63				82	12 x 48	12 x 72				2	2
	30° to 37.5°	60	12 x 36	12 x 69				72	12 x 42	18 x 63				2	2
	37.5° to 45°	65	12 x 36	18 x 66				69	12 x 36	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	73	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		125	12 x 54	12 x 54	Yes	Yes	Yes	2	2
	7.5° to 15°	62	12 x 39	12 x 48				124	18 x 60	18 x 60				2	2
	15° to 22.5°	58	12 x 42	12 x 54				93	18 x 60	12 x 69				2	2
	22.5° to 30°	55	12 x 42	12 x 66				75	18 x 60	18 x 63				2	2
	30° to 37.5°	56	12 x 39	12 x 72				67	12 x 45	18 x 66				2	2
	37.5° to 45°	60	12 x 39	18 x 69				63	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	69	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		117	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	58	12 x 42	12 x 51				116	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 42	12 x 57				87	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 42	12 x 66				70	18 x 60	18 x 63				2	2
	30° to 37.5°	52	12 x 42	18 x 63				62	12 x 45	18 x 66				2	2
	37.5° to 45°	56	12 x 39	18 x 72				59	12 x 42	18 x 72				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	64	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		110	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	54	12 x 42	12 x 54				109	18 x 60	18 x 60				2	2
	15° to 22.5°	50	12 x 45	12 x 57				81	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 45	12 x 69				65	18 x 60	18 x 66				2	2
	30° to 37.5°	49	12 x 45	18 x 66				58	12 x 48	18 x 69				2	2
	37.5° to 45°	53	12 x 42	18 x 75				55	12 x 42	18 x 75				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	61	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		104	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 45	12 x 57				102	18 x 60	18 x 63				2	2
	15° to 22.5°	47	12 x 48	12 x 60				76	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 48	12 x 72				61	18 x 60	18 x 69				2	2
	30° to 37.5°	46	12 x 45	18 x 66				54	18 x 60	18 x 72				2	2
	37.5° to 45°	50	12 x 45	18 x 78				51	12 x 45	18 x 78				2	3

0 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Snow-Free Region	0 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	58	12 x 48	12 x 48	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 48	12 x 57				96	18 x 60	18 x 63				2	2
	15° to 22.5°	45	12 x 48	12 x 63				71	18 x 60	18 x 63				2	2
	22.5° to 30°	43	12 x 48	18 x 60				58	18 x 60	18 x 69				2	3
	30° to 37.5°	44	12 x 48	18 x 69				51	18 x 60	18 x 75				2	3
	37.5° to 45°	47	12 x 45	18 x 78				48	12 x 48	18 x 81				2	3

10 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 10 psf	10 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	85	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		146	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	79	12 x 30	12 x 36				159	18 x 60	12 x 51				2	2
	15° to 22.5°	79	12 x 30	12 x 45				135	12 x 42	12 x 57				2	2
	22.5° to 30°	76	12 x 30	12 x 54				109	12 x 39	12 x 63				2	2
	30° to 37.5°	78	12 x 30	12 x 60				97	12 x 33	12 x 66				2	2
	37.5° to 45°	83	12 x 30	12 x 69				91	12 x 30	12 x 72				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	84	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		144	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	77	12 x 30	12 x 36				154	18 x 60	18 x 60				2	2
	15° to 22.5°	76	12 x 33	12 x 45				128	12 x 42	12 x 60				2	2
	22.5° to 30°	73	12 x 33	12 x 54				103	12 x 39	12 x 66				2	2
	30° to 37.5°	74	12 x 30	12 x 63				92	12 x 36	12 x 69				2	2
	37.5° to 45°	79	12 x 30	12 x 72				87	12 x 30	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	82	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		141	12 x 39	12 x 39	Yes	Yes	Yes	2	2
	7.5° to 15°	75	12 x 30	12 x 39				149	18 x 60	18 x 60				2	2
	15° to 22.5°	73	12 x 33	12 x 48				122	12 x 45	12 x 60				2	2
	22.5° to 30°	70	12 x 33	12 x 57				98	12 x 42	12 x 66				2	2
	30° to 37.5°	71	12 x 33	12 x 63				87	12 x 36	12 x 69				2	2
	37.5° to 45°	76	12 x 30	12 x 72				82	12 x 33	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	80	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		137	12 x 42	12 x 42	Yes	Yes	Yes	2	2
	7.5° to 15°	72	12 x 33	12 x 42				145	18 x 60	18 x 60				2	2
	15° to 22.5°	70	12 x 36	12 x 48				116	12 x 48	12 x 60				2	2
	22.5° to 30°	67	12 x 36	12 x 57				93	12 x 42	12 x 69				2	2
	30° to 37.5°	68	12 x 33	12 x 66				83	12 x 39	12 x 72				2	2
	37.5° to 45°	73	12 x 33	18 x 63				78	12 x 33	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	78	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		134	12 x 45	12 x 45	Yes	Yes	Yes	2	2
	7.5° to 15°	70	12 x 33	12 x 42				141	18 x 60	18 x 60				2	2
	15° to 22.5°	67	12 x 36	12 x 51				110	18 x 60	12 x 63				2	2
	22.5° to 30°	64	12 x 36	12 x 60				89	12 x 45	12 x 69				2	2
	30° to 37.5°	65	12 x 36	12 x 66				79	12 x 39	12 x 72				2	2
	37.5° to 45°	70	12 x 33	18 x 63				75	12 x 36	18 x 66				2	2

10 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 10 psf	10 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	75	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		128	12 x 48	12 x 48	Yes	Yes	Yes	2	2
	7.5° to 15°	66	12 x 36	12 x 45				133	18 x 60	18 x 60				2	2
	15° to 22.5°	62	12 x 39	12 x 51				101	18 x 60	12 x 66				2	2
	22.5° to 30°	59	12 x 39	12 x 63				82	12 x 48	12 x 72				2	2
	30° to 37.5°	60	12 x 36	12 x 69				72	12 x 42	18 x 63				2	2
	37.5° to 45°	65	12 x 36	18 x 66				69	12 x 36	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	71	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		122	12 x 51	12 x 51	Yes	Yes	Yes	2	2
	7.5° to 15°	62	12 x 39	12 x 48				124	18 x 60	18 x 60				2	2
	15° to 22.5°	58	12 x 42	12 x 54				93	18 x 60	12 x 69				2	2
	22.5° to 30°	55	12 x 42	12 x 66				75	18 x 60	18 x 63				2	2
	30° to 37.5°	56	12 x 39	12 x 72				67	12 x 45	18 x 66				2	2
	37.5° to 45°	60	12 x 39	18 x 69				63	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	68	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		116	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	58	12 x 42	12 x 51				116	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 42	12 x 57				87	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 42	12 x 66				70	18 x 60	18 x 63				2	2
	30° to 37.5°	52	12 x 42	18 x 63				62	12 x 45	18 x 66				2	2
	37.5° to 45°	56	12 x 39	18 x 72				59	12 x 42	18 x 72				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	64	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		110	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	54	12 x 42	12 x 54				109	18 x 60	18 x 60				2	2
	15° to 22.5°	50	12 x 45	12 x 57				81	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 45	12 x 69				65	18 x 60	18 x 66				2	2
	30° to 37.5°	49	12 x 45	18 x 66				58	12 x 48	18 x 69				2	2
	37.5° to 45°	53	12 x 42	18 x 75				55	12 x 42	18 x 75				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	61	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		104	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 45	12 x 57				102	18 x 60	18 x 63				2	2
	15° to 22.5°	47	12 x 48	12 x 60				76	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 48	12 x 72				61	18 x 60	18 x 69				2	2
	30° to 37.5°	46	12 x 45	18 x 66				54	18 x 60	18 x 72				2	2
	37.5° to 45°	50	12 x 45	18 x 78				51	12 x 45	18 x 78				2	3

10 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 10 psf	10 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	58	12 x 48	12 x 48	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 48	12 x 57				96	18 x 60	18 x 63				2	2
	15° to 22.5°	45	12 x 48	12 x 63				71	18 x 60	18 x 63				2	2
	22.5° to 30°	43	12 x 48	18 x 60				58	18 x 60	18 x 69				2	3
	30° to 37.5°	44	12 x 48	18 x 69				51	18 x 60	18 x 75				2	3
	37.5° to 45°	47	12 x 45	18 x 78				48	12 x 48	18 x 81				2	3

20 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 20 psf	20 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	73	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		125	12 x 36	12 x 36	Yes	Yes	Yes	2	2
	7.5° to 15°	69	12 x 30	12 x 33				139	18 x 60	18 x 60				2	2
	15° to 22.5°	71	12 x 30	12 x 45				135	18 x 60	12 x 57				2	2
	22.5° to 30°	70	12 x 30	12 x 51				109	12 x 39	12 x 63				2	2
	30° to 37.5°	72	12 x 30	12 x 57				97	12 x 33	12 x 66				2	2
	37.5° to 45°	77	12 x 30	12 x 66				91	12 x 30	12 x 72				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	72	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		124	12 x 36	12 x 36	Yes	Yes	Yes	2	2
	7.5° to 15°	68	12 x 30	12 x 36				135	18 x 60	18 x 60				2	2
	15° to 22.5°	69	12 x 30	12 x 45				128	18 x 60	12 x 60				2	2
	22.5° to 30°	68	12 x 30	12 x 54				103	12 x 39	12 x 66				2	2
	30° to 37.5°	70	12 x 30	12 x 60				92	12 x 36	12 x 69				2	2
	37.5° to 45°	74	12 x 30	12 x 69				87	12 x 30	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	71	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		122	12 x 36	12 x 36	Yes	Yes	Yes	2	2
	7.5° to 15°	66	12 x 30	12 x 36				132	18 x 60	18 x 60				2	2
	15° to 22.5°	67	12 x 33	12 x 45				122	18 x 60	12 x 60				2	2
	22.5° to 30°	66	12 x 33	12 x 57				98	12 x 42	12 x 66				2	2
	30° to 37.5°	68	12 x 30	12 x 63				87	12 x 36	12 x 69				2	2
	37.5° to 45°	72	12 x 30	12 x 72				82	12 x 33	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	70	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		119	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	65	12 x 30	12 x 39				129	18 x 60	18 x 60				2	2
	15° to 22.5°	66	12 x 33	12 x 48				116	18 x 60	12 x 60				2	2
	22.5° to 30°	64	12 x 33	12 x 57				93	12 x 42	12 x 69				2	2
	30° to 37.5°	66	12 x 33	12 x 63				83	12 x 39	12 x 72				2	2
	37.5° to 45°	70	12 x 33	18 x 60				78	12 x 33	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	68	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		117	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	63	12 x 30	12 x 39				126	18 x 60	18 x 60				2	2
	15° to 22.5°	64	12 x 36	12 x 48				110	18 x 60	12 x 63				2	2
	22.5° to 30°	62	12 x 36	12 x 60				89	12 x 45	12 x 69				2	2
	30° to 37.5°	64	12 x 33	12 x 66				79	12 x 39	12 x 72				2	2
	37.5° to 45°	68	12 x 33	18 x 63				75	12 x 36	18 x 66				2	2

20 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 20 psf	20 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	66	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		113	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	60	12 x 33	12 x 45				121	18 x 60	18 x 60				2	2
	15° to 22.5°	60	12 x 39	12 x 51				101	18 x 60	18 x 60				2	2
	22.5° to 30°	59	12 x 39	12 x 63				82	12 x 48	12 x 72				2	2
	30° to 37.5°	60	12 x 36	12 x 69				72	12 x 42	18 x 63				2	2
	37.5° to 45°	65	12 x 36	18 x 66				69	12 x 36	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	63	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		109	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	58	12 x 36	12 x 48				115	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 42	12 x 54				93	18 x 60	18 x 60				2	2
	22.5° to 30°	55	12 x 42	12 x 66				75	18 x 60	18 x 63				2	2
	30° to 37.5°	56	12 x 39	12 x 72				67	12 x 45	18 x 66				2	2
	37.5° to 45°	60	12 x 39	18 x 69				63	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	61	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		105	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 39	12 x 51				110	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 42	12 x 57				87	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 42	12 x 66				70	18 x 60	18 x 63				2	2
	30° to 37.5°	52	12 x 42	18 x 63				62	12 x 45	18 x 66				2	2
	37.5° to 45°	56	12 x 39	18 x 72				59	12 x 42	18 x 72				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		101	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 42	12 x 54				106	18 x 60	18 x 60				2	2
	15° to 22.5°	50	12 x 45	12 x 57				81	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 45	12 x 69				65	18 x 60	18 x 66				2	2
	30° to 37.5°	49	12 x 45	18 x 66				58	12 x 48	18 x 69				2	2
	37.5° to 45°	53	12 x 42	18 x 75				55	12 x 42	18 x 75				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	57	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		97	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	50	12 x 45	12 x 57				101	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 48	12 x 60				76	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 48	12 x 72				61	18 x 60	18 x 69				2	2
	30° to 37.5°	46	12 x 45	18 x 66				54	18 x 60	18 x 72				2	2
	37.5° to 45°	50	12 x 45	18 x 78				51	12 x 45	18 x 78				2	3

20 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 20 psf	20 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 48	12 x 57				96	18 x 60	18 x 63				2	2
	15° to 22.5°	45	12 x 48	12 x 63				71	18 x 60	18 x 63				2	2
	22.5° to 30°	43	12 x 48	18 x 60				58	18 x 60	18 x 69				2	3
	30° to 37.5°	44	12 x 48	18 x 69				51	18 x 60	18 x 75				2	3
	37.5° to 45°	47	12 x 45	18 x 78				48	12 x 48	18 x 81				2	3

30 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 30 psf	30 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	70	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		121	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	67	12 x 30	12 x 33				134	18 x 60	18 x 60				2	2
	15° to 22.5°	66	12 x 30	12 x 42				135	18 x 60	18 x 60				2	2
	22.5° to 30°	65	12 x 30	12 x 51				109	18 x 60	12 x 63				2	2
	30° to 37.5°	67	12 x 30	12 x 57				97	12 x 33	12 x 66				2	2
	37.5° to 45°	71	12 x 30	12 x 63				91	12 x 30	12 x 72				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	70	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		120	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	66	12 x 30	12 x 33				132	18 x 60	18 x 60				2	2
	15° to 22.5°	64	12 x 30	12 x 42				128	18 x 60	18 x 60				2	2
	22.5° to 30°	63	12 x 30	12 x 51				103	18 x 60	12 x 66				2	2
	30° to 37.5°	65	12 x 30	12 x 57				92	12 x 36	12 x 69				2	2
	37.5° to 45°	69	12 x 30	12 x 66				87	12 x 30	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	69	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		118	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	64	12 x 30	12 x 36				129	18 x 60	18 x 60				2	2
	15° to 22.5°	63	12 x 30	12 x 45				122	18 x 60	18 x 60				2	2
	22.5° to 30°	62	12 x 30	12 x 54				98	18 x 60	12 x 66				2	2
	30° to 37.5°	64	12 x 30	12 x 60				87	12 x 36	12 x 69				2	2
	37.5° to 45°	68	12 x 30	12 x 69				82	12 x 33	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	67	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		116	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	63	12 x 30	12 x 39				126	18 x 60	18 x 60				2	2
	15° to 22.5°	61	12 x 33	12 x 45				116	18 x 60	18 x 60				2	2
	22.5° to 30°	60	12 x 33	12 x 57				93	18 x 60	12 x 69				2	2
	30° to 37.5°	62	12 x 33	12 x 63				83	12 x 39	12 x 72				2	2
	37.5° to 45°	66	12 x 30	12 x 72				78	12 x 33	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	66	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		114	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	61	12 x 30	12 x 39				123	18 x 60	18 x 60				2	2
	15° to 22.5°	60	12 x 33	12 x 48				110	18 x 60	18 x 60				2	2
	22.5° to 30°	59	12 x 36	12 x 57				89	18 x 60	12 x 69				2	2
	30° to 37.5°	60	12 x 33	12 x 63				79	12 x 39	12 x 72				2	2
	37.5° to 45°	64	12 x 33	18 x 60				75	12 x 36	18 x 66				2	2

30 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 30 psf	30 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	64	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		110	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	59	12 x 33	12 x 42				118	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 36	12 x 51				101	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 39	12 x 60				82	18 x 60	12 x 72				2	2
	30° to 37.5°	57	12 x 36	12 x 69				72	12 x 42	18 x 63				2	2
	37.5° to 45°	61	12 x 36	18 x 66				69	12 x 36	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	62	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		106	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 36	12 x 45				113	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 39	12 x 54				93	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 39	12 x 63				75	18 x 60	18 x 63				2	2
	30° to 37.5°	55	12 x 39	12 x 72				67	12 x 45	18 x 66				2	2
	37.5° to 45°	58	12 x 39	18 x 69				63	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	60	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		102	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	54	12 x 39	12 x 48				108	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 42	12 x 54				87	18 x 60	18 x 60				2	2
	22.5° to 30°	50	12 x 42	12 x 66				70	18 x 60	18 x 63				2	2
	30° to 37.5°	52	12 x 42	18 x 63				62	12 x 45	18 x 66				2	2
	37.5° to 45°	55	12 x 39	18 x 72				59	12 x 42	18 x 72				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	58	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 42	12 x 51				104	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 45	12 x 57				81	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 45	12 x 69				65	18 x 60	18 x 66				2	2
	30° to 37.5°	49	12 x 45	18 x 66				58	12 x 48	18 x 69				2	2
	37.5° to 45°	53	12 x 42	18 x 75				55	12 x 42	18 x 75				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	56	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		95	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	50	12 x 45	12 x 54				99	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 48	12 x 60				76	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 48	12 x 72				61	18 x 60	18 x 69				2	2
	30° to 37.5°	46	12 x 45	18 x 66				54	18 x 60	18 x 72				2	2
	37.5° to 45°	50	12 x 45	18 x 78				51	12 x 45	18 x 78				2	3

30 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 30 psf	30 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	54	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		92	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 45	12 x 57				95	18 x 60	18 x 63				2	2
	15° to 22.5°	45	12 x 48	12 x 63				71	18 x 60	18 x 63				2	2
	22.5° to 30°	43	12 x 48	18 x 60				58	18 x 60	18 x 69				2	3
	30° to 37.5°	44	12 x 48	18 x 69				51	18 x 60	18 x 75				2	3
	37.5° to 45°	47	12 x 45	18 x 78				48	12 x 48	18 x 81				2	3

40 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 40 psf	40 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	65	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		111	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	62	12 x 30	12 x 33				124	18 x 60	18 x 60				2	2
	15° to 22.5°	61	12 x 30	12 x 42				135	18 x 60	18 x 60				2	2
	22.5° to 30°	61	12 x 30	12 x 48				109	18 x 60	18 x 60				2	2
	30° to 37.5°	63	12 x 30	12 x 54				97	18 x 60	12 x 66				2	2
	37.5° to 45°	67	12 x 30	12 x 63				91	12 x 30	12 x 72				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	64	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		110	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	61	12 x 30	12 x 33				122	18 x 60	18 x 60				2	2
	15° to 22.5°	60	12 x 30	12 x 42				128	18 x 60	18 x 60				2	2
	22.5° to 30°	60	12 x 30	12 x 51				103	18 x 60	18 x 60				2	2
	30° to 37.5°	61	12 x 30	12 x 57				92	12 x 36	12 x 69				2	2
	37.5° to 45°	65	12 x 30	12 x 66				87	12 x 30	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	63	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		108	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	60	12 x 30	12 x 33				120	18 x 60	18 x 60				2	2
	15° to 22.5°	59	12 x 30	12 x 42				122	18 x 60	18 x 60				2	2
	22.5° to 30°	58	12 x 30	12 x 51				98	18 x 60	18 x 60				2	2
	30° to 37.5°	60	12 x 30	12 x 60				87	12 x 36	12 x 69				2	2
	37.5° to 45°	64	12 x 30	12 x 66				82	12 x 33	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	62	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		107	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	59	12 x 30	12 x 36				118	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 30	12 x 45				116	18 x 60	18 x 60				2	2
	22.5° to 30°	57	12 x 33	12 x 54				93	18 x 60	18 x 60				2	2
	30° to 37.5°	59	12 x 30	12 x 60				83	12 x 39	12 x 72				2	2
	37.5° to 45°	62	12 x 30	12 x 69				78	12 x 33	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	61	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		105	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	58	12 x 30	12 x 39				115	18 x 60	18 x 60				2	2
	15° to 22.5°	56	12 x 33	12 x 45				110	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 33	12 x 57				89	18 x 60	18 x 60				2	2
	30° to 37.5°	57	12 x 33	12 x 63				79	12 x 39	12 x 72				2	2
	37.5° to 45°	61	12 x 30	12 x 72				75	12 x 36	18 x 66				2	2

40 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 40 psf	40 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	60	12 x 30	12 x 30	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		102	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 33	12 x 42				111	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 36	12 x 48				101	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 36	12 x 60				82	18 x 60	18 x 60				2	2
	30° to 37.5°	55	12 x 36	12 x 66				72	12 x 42	18 x 63				2	2
	37.5° to 45°	58	12 x 33	18 x 63				69	12 x 36	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	58	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		99	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 36	12 x 45				107	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 39	12 x 51				93	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 39	12 x 63				75	18 x 60	18 x 63				2	2
	30° to 37.5°	52	12 x 39	12 x 69				67	18 x 60	18 x 66				2	2
	37.5° to 45°	56	12 x 36	18 x 66				63	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	56	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		96	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 39	12 x 48				103	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 42	12 x 54				87	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 42	12 x 66				70	18 x 60	18 x 63				2	2
	30° to 37.5°	50	12 x 39	12 x 72				62	18 x 60	18 x 66				2	2
	37.5° to 45°	53	12 x 39	18 x 69				59	12 x 42	18 x 72				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	54	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		93	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 39	12 x 51				99	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 45	12 x 57				81	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 45	12 x 69				65	18 x 60	18 x 66				2	2
	30° to 37.5°	48	12 x 42	18 x 63				58	18 x 60	18 x 69				2	2
	37.5° to 45°	51	12 x 42	18 x 72				55	12 x 42	18 x 75				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	53	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 42	12 x 54				95	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 45	12 x 60				76	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 48	12 x 72				61	18 x 60	18 x 69				2	2
	30° to 37.5°	46	12 x 45	18 x 66				54	18 x 60	18 x 72				2	2
	37.5° to 45°	49	12 x 45	18 x 75				51	12 x 45	18 x 78				2	3

40 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 40 psf	40 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 45	12 x 45	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		87	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 45	12 x 57				92	18 x 60	18 x 63				2	2
	15° to 22.5°	44	12 x 48	12 x 60				71	18 x 60	18 x 63				2	2
	22.5° to 30°	43	12 x 48	18 x 60				58	18 x 60	18 x 69				2	3
	30° to 37.5°	44	12 x 48	18 x 69				51	18 x 60	18 x 75				2	3
	37.5° to 45°	47	12 x 45	18 x 78				48	12 x 48	18 x 81				2	3

50 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 50 psf	50 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	60	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		102	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	58	12 x 30	12 x 36				116	18 x 60	18 x 60				2	2
	15° to 22.5°	57	12 x 30	12 x 39				129	18 x 60	18 x 60				2	2
	22.5° to 30°	57	12 x 30	12 x 48				109	18 x 60	18 x 60				2	2
	30° to 37.5°	59	12 x 30	12 x 54				97	18 x 60	18 x 60				2	2
	37.5° to 45°	63	12 x 30	12 x 60				91	12 x 30	12 x 72				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	60	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		102	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	57	12 x 30	12 x 36				114	18 x 60	18 x 60				2	2
	15° to 22.5°	56	12 x 30	12 x 42				126	18 x 60	18 x 60				2	2
	22.5° to 30°	56	12 x 30	12 x 48				103	18 x 60	18 x 60				2	2
	30° to 37.5°	58	12 x 30	12 x 54				92	18 x 60	18 x 60				2	2
	37.5° to 45°	62	12 x 30	12 x 63				87	12 x 30	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	59	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		101	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	56	12 x 30	12 x 36				113	18 x 60	18 x 60				2	2
	15° to 22.5°	55	12 x 30	12 x 42				122	18 x 60	18 x 60				2	2
	22.5° to 30°	55	12 x 30	12 x 51				98	18 x 60	18 x 60				2	2
	30° to 37.5°	57	12 x 30	12 x 57				87	18 x 60	18 x 60				2	2
	37.5° to 45°	61	12 x 30	12 x 66				82	12 x 33	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	58	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		100	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 30	12 x 36				111	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 30	12 x 45				116	18 x 60	18 x 60				2	2
	22.5° to 30°	54	12 x 30	12 x 54				93	18 x 60	18 x 60				2	2
	30° to 37.5°	56	12 x 30	12 x 60				83	18 x 60	18 x 60				2	2
	37.5° to 45°	59	12 x 30	12 x 69				78	12 x 33	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	57	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		98	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	54	12 x 30	12 x 36				109	18 x 60	18 x 60				2	2
	15° to 22.5°	53	12 x 33	12 x 45				110	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 33	12 x 54				89	18 x 60	18 x 60				2	2
	30° to 37.5°	55	12 x 30	12 x 60				79	18 x 60	12 x 72				2	2
	37.5° to 45°	58	12 x 30	12 x 69				75	12 x 36	18 x 66				2	2

50 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 50 psf	50 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	56	12 x 30	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		96	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 33	12 x 39				105	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 36	12 x 48				101	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 36	12 x 57				82	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 33	12 x 66				72	18 x 60	18 x 63				2	2
	37.5° to 45°	56	12 x 33	18 x 63				69	12 x 36	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	54	12 x 33	12 x 33	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		93	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 33	12 x 42				102	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 36	12 x 51				93	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 39	12 x 60				75	18 x 60	18 x 63				2	2
	30° to 37.5°	50	12 x 36	12 x 69				67	18 x 60	18 x 66				2	2
	37.5° to 45°	53	12 x 36	18 x 66				63	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	53	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		91	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 36	12 x 48				98	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 39	12 x 54				87	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 42	12 x 63				70	18 x 60	18 x 63				2	2
	30° to 37.5°	48	12 x 39	12 x 72				62	18 x 60	18 x 66				2	2
	37.5° to 45°	51	12 x 39	18 x 69				59	12 x 42	18 x 72				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		88	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 39	12 x 51				95	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 42	12 x 54				81	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 45	12 x 66				65	18 x 60	18 x 66				2	2
	30° to 37.5°	46	12 x 42	18 x 63				58	18 x 60	18 x 69				2	2
	37.5° to 45°	49	12 x 42	18 x 72				55	12 x 42	18 x 75				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		86	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 42	12 x 51				91	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 45	12 x 57				76	18 x 60	18 x 60				2	2
	22.5° to 30°	43	12 x 45	12 x 69				61	18 x 60	18 x 69				2	2
	30° to 37.5°	44	12 x 45	18 x 66				54	18 x 60	18 x 72				2	2
	37.5° to 45°	47	12 x 42	18 x 75				51	12 x 45	18 x 78				2	3

50 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 50 psf	50 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		83	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 45	12 x 54				88	18 x 60	18 x 60				2	2
	15° to 22.5°	42	12 x 48	12 x 60				71	18 x 60	18 x 63				2	2
	22.5° to 30°	41	12 x 48	12 x 72				58	18 x 60	18 x 69				2	3
	30° to 37.5°	43	12 x 48	18 x 69				51	18 x 60	18 x 75				2	3
	37.5° to 45°	46	12 x 45	18 x 78				48	12 x 48	18 x 81				2	3

60 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 60 psf	60 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	55	12 x 30	12 x 36				110	18 x 60	18 x 60				2	2
	15° to 22.5°	54	12 x 30	12 x 39				122	18 x 60	18 x 60				2	2
	22.5° to 30°	55	12 x 30	12 x 45				109	18 x 60	18 x 60				2	2
	30° to 37.5°	56	12 x 30	12 x 51				97	18 x 60	18 x 60				2	2
	37.5° to 45°	60	12 x 30	12 x 60				91	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	54	12 x 30	12 x 36				108	18 x 60	18 x 60				2	2
	15° to 22.5°	53	12 x 30	12 x 42				120	18 x 60	18 x 60				2	2
	22.5° to 30°	54	12 x 30	12 x 48				103	18 x 60	18 x 60				2	2
	30° to 37.5°	55	12 x 30	12 x 54				92	18 x 60	18 x 60				2	2
	37.5° to 45°	59	12 x 30	12 x 63				87	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SI		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	53	12 x 30	12 x 36				106	18 x 60	18 x 60				2	2
	15° to 22.5°	53	12 x 30	12 x 42				118	18 x 60	18 x 60				2	2
	22.5° to 30°	53	12 x 30	12 x 51				98	18 x 60	18 x 60				2	2
	30° to 37.5°	54	12 x 30	12 x 57				87	18 x 60	18 x 60				2	2
	37.5° to 45°	58	12 x 30	12 x 63				82	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	55	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		94	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 30	12 x 36				105	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 30	12 x 42				116	18 x 60	18 x 60				2	2
	22.5° to 30°	52	12 x 30	12 x 51				93	18 x 60	18 x 60				2	2
	30° to 37.5°	53	12 x 30	12 x 57				83	18 x 60	18 x 60				2	2
	37.5° to 45°	57	12 x 30	12 x 66				78	18 x 60	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	54	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		93	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 30	12 x 36				103	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 30	12 x 45				110	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 33	12 x 54				89	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 30	12 x 60				79	18 x 60	18 x 60				2	2
	37.5° to 45°	56	12 x 30	12 x 69				75	12 x 36	18 x 66				2	2

60 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 60 psf	60 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	53	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		90	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	50	12 x 30	12 x 39				100	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 33	12 x 48				101	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 36	12 x 57				82	18 x 60	18 x 60				2	2
	30° to 37.5°	50	12 x 33	12 x 63				72	18 x 60	18 x 63				2	2
	37.5° to 45°	54	12 x 33	12 x 72				69	12 x 36	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	52	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		88	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 33	12 x 42				97	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 36	12 x 48				93	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 39	12 x 60				75	18 x 60	18 x 63				2	2
	30° to 37.5°	48	12 x 36	12 x 69				67	18 x 60	18 x 66				2	2
	37.5° to 45°	52	12 x 36	18 x 63				63	12 x 39	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		86	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 36	12 x 45				94	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 39	12 x 51				87	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 39	12 x 63				70	18 x 60	18 x 63				2	2
	30° to 37.5°	46	12 x 39	12 x 72				62	18 x 60	18 x 66				2	2
	37.5° to 45°	50	12 x 39	18 x 69				59	12 x 42	18 x 72				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		84	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	45	12 x 39	12 x 48				91	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 42	12 x 54				81	18 x 60	18 x 60				2	2
	22.5° to 30°	43	12 x 42	12 x 66				65	18 x 60	18 x 66				2	2
	30° to 37.5°	45	12 x 42	18 x 63				58	18 x 60	18 x 69				2	2
	37.5° to 45°	48	12 x 39	18 x 72				55	12 x 42	18 x 75				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 42	12 x 51				88	18 x 60	18 x 60				2	2
	15° to 22.5°	42	12 x 45	12 x 57				76	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 45	12 x 69				61	18 x 60	18 x 69				2	3
	30° to 37.5°	43	12 x 45	18 x 63				54	18 x 60	18 x 72				2	2
	37.5° to 45°	46	12 x 42	18 x 75				51	18 x 60	18 x 78				2	3

60 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 60 psf	60 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		80	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	43	12 x 42	12 x 54				84	18 x 60	18 x 60				2	2
	15° to 22.5°	41	18 x 60	12 x 60				71	18 x 60	18 x 63				2	3
	22.5° to 30°	40	18 x 60	12 x 72				58	18 x 60	18 x 69				2	3
	30° to 37.5°	41	12 x 45	18 x 66				51	18 x 60	18 x 75				2	3
	37.5° to 45°	44	12 x 45	18 x 78				48	18 x 60	18 x 81				2	3

70 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 70 psf	70 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		88	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	52	12 x 30	12 x 36				104	18 x 60	18 x 60				2	2
	15° to 22.5°	52	12 x 30	12 x 39				116	18 x 60	18 x 60				2	2
	22.5° to 30°	52	12 x 30	12 x 45				109	18 x 60	18 x 60				2	2
	30° to 37.5°	54	12 x 30	12 x 51				97	18 x 60	18 x 60				2	2
	37.5° to 45°	57	12 x 30	12 x 57				91	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		88	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 30	12 x 36				103	18 x 60	18 x 60				2	2
	15° to 22.5°	51	12 x 30	12 x 39				114	18 x 60	18 x 60				2	2
	22.5° to 30°	51	12 x 30	12 x 48				103	18 x 60	18 x 60				2	2
	30° to 37.5°	53	12 x 30	12 x 54				92	18 x 60	18 x 60				2	2
	37.5° to 45°	56	12 x 30	12 x 60				87	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		88	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	51	12 x 30	12 x 36				101	18 x 60	18 x 60				2	2
	15° to 22.5°	50	12 x 30	12 x 42				112	18 x 60	18 x 60				2	2
	22.5° to 30°	50	12 x 30	12 x 48				98	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 30	12 x 54				87	18 x 60	18 x 60				2	2
	37.5° to 45°	55	12 x 30	12 x 63				82	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		88	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	50	12 x 30	12 x 36				100	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 42				111	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 30	12 x 51				93	18 x 60	18 x 60				2	2
	30° to 37.5°	51	12 x 30	12 x 57				83	18 x 60	18 x 60				2	2
	37.5° to 45°	54	12 x 30	12 x 66				78	18 x 60	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	51	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		88	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 30	12 x 36				99	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 42				109	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 30	12 x 54				89	18 x 60	18 x 60				2	2
	30° to 37.5°	50	12 x 30	12 x 60				79	18 x 60	18 x 60				2	2
	37.5° to 45°	53	12 x 30	12 x 69				75	18 x 60	18 x 66				2	2

70 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 70 psf	70 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	50	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		86	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 39				96	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 33	12 x 45				101	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 33	12 x 57				82	18 x 60	18 x 60				2	2
	30° to 37.5°	48	12 x 33	12 x 63				72	18 x 60	18 x 63				2	2
	37.5° to 45°	52	12 x 30	12 x 72				69	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	49	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		84	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 33	12 x 42				93	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 36	12 x 48				93	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 36	12 x 60				75	18 x 60	18 x 63				2	2
	30° to 37.5°	47	12 x 36	12 x 66				67	18 x 60	18 x 66				2	2
	37.5° to 45°	50	12 x 33	18 x 63				63	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	45	12 x 36	12 x 45				90	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 39	12 x 51				87	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 39	12 x 63				70	18 x 60	18 x 63				2	2
	30° to 37.5°	45	12 x 39	12 x 69				62	18 x 60	18 x 66				2	2
	37.5° to 45°	48	12 x 36	18 x 66				59	18 x 60	18 x 72				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	47	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		80	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 39	12 x 48				88	18 x 60	18 x 60				2	2
	15° to 22.5°	43	12 x 42	12 x 54				81	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 42	12 x 66				65	18 x 60	18 x 66				2	3
	30° to 37.5°	43	12 x 42	12 x 72				58	18 x 60	18 x 69				2	2
	37.5° to 45°	46	12 x 39	18 x 69				55	18 x 60	18 x 75				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	42	12 x 39	12 x 51				83	18 x 60	18 x 60				2	2
	15° to 22.5°	41	18 x 60	12 x 57				76	18 x 60	18 x 60				2	3
	22.5° to 30°	41	18 x 60	12 x 69				61	18 x 60	18 x 69				2	3
	30° to 37.5°	42	12 x 42	18 x 63				54	18 x 60	18 x 72				2	3
	37.5° to 45°	45	12 x 42	18 x 72				51	18 x 60	18 x 78				2	3

70 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 70 psf	70 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 42	12 x 42	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		77	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	41	18 x 60	12 x 54				79	18 x 60	18 x 60				2	3
	15° to 22.5°	40	18 x 60	12 x 57				71	18 x 60	18 x 63				2	3
	22.5° to 30°	39	18 x 60	12 x 72				58	18 x 60	18 x 69				2	3
	30° to 37.5°	40	18 x 60	18 x 66				51	18 x 60	18 x 75				2	3
	37.5° to 45°	43	12 x 45	18 x 75				48	18 x 60	18 x 81				2	3

80 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 80 psf	80 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 30	12 x 36				97	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 39				111	18 x 60	18 x 60				2	2
	22.5° to 30°	50	12 x 30	12 x 45				109	18 x 60	18 x 60				2	2
	30° to 37.5°	52	12 x 30	12 x 51				97	18 x 60	18 x 60				2	2
	37.5° to 45°	55	12 x 30	12 x 57				91	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	49	12 x 30	12 x 36				97	18 x 60	18 x 60				2	2
	15° to 22.5°	49	12 x 30	12 x 39				109	18 x 60	18 x 60				2	2
	22.5° to 30°	49	12 x 30	12 x 45				103	18 x 60	18 x 60				2	2
	30° to 37.5°	51	12 x 30	12 x 51				92	18 x 60	18 x 60				2	2
	37.5° to 45°	54	12 x 30	12 x 60				87	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 36				97	18 x 60	18 x 60				2	2
	15° to 22.5°	48	12 x 30	12 x 42				107	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 30	12 x 48				98	18 x 60	18 x 60				2	2
	30° to 37.5°	50	12 x 30	12 x 54				87	18 x 60	18 x 60				2	2
	37.5° to 45°	53	12 x 30	12 x 63				82	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	48	12 x 30	12 x 36				96	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 42				104	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 30	12 x 51				93	18 x 60	18 x 60				2	2
	30° to 37.5°	49	12 x 30	12 x 57				83	18 x 60	18 x 60				2	2
	37.5° to 45°	52	12 x 30	12 x 63				78	18 x 60	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	47	12 x 30	12 x 36				94	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 42				101	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 30	12 x 51				89	18 x 60	18 x 60				2	2
	30° to 37.5°	48	12 x 30	12 x 57				79	18 x 60	18 x 60				2	2
	37.5° to 45°	51	12 x 30	12 x 66				75	18 x 60	18 x 66				2	2

80 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 80 psf	80 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	48	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		82	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 39				92	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 33	12 x 45				95	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 33	12 x 54				82	18 x 60	18 x 60				2	2
	30° to 37.5°	47	12 x 33	12 x 63				72	18 x 60	18 x 63				2	2
	37.5° to 45°	50	12 x 30	12 x 72				69	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	47	12 x 30	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		80	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	45	12 x 33	12 x 39				90	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 36	12 x 48				89	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 36	12 x 57				75	18 x 60	18 x 63				2	2
	30° to 37.5°	45	12 x 36	12 x 66				67	18 x 60	18 x 66				2	2
	37.5° to 45°	48	12 x 33	18 x 63				63	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	46	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		79	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	43	12 x 33	12 x 45				87	18 x 60	18 x 60				2	2
	15° to 22.5°	43	12 x 39	12 x 51				84	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 39	12 x 63				70	18 x 60	18 x 63				2	3
	30° to 37.5°	44	12 x 36	12 x 69				62	18 x 60	18 x 66				2	2
	37.5° to 45°	47	12 x 36	18 x 66				59	18 x 60	18 x 72				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		77	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	42	12 x 36	12 x 48				83	18 x 60	18 x 60				2	3
	15° to 22.5°	41	12 x 39	12 x 54				79	18 x 60	18 x 60				2	3
	22.5° to 30°	41	18 x 60	12 x 66				65	18 x 60	18 x 66				2	3
	30° to 37.5°	42	12 x 39	12 x 72				58	18 x 60	18 x 69				2	3
	37.5° to 45°	45	12 x 39	18 x 69				55	18 x 60	18 x 75				2	2

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	44	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		75	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	41	18 x 60	12 x 48				78	18 x 60	18 x 60				2	3
	15° to 22.5°	40	18 x 60	12 x 54				74	18 x 60	18 x 60				2	3
	22.5° to 30°	39	18 x 60	12 x 66				61	18 x 60	18 x 69				2	3
	30° to 37.5°	41	18 x 60	18 x 63				54	18 x 60	18 x 72				2	3
	37.5° to 45°	44	12 x 42	18 x 72				51	18 x 60	18 x 78				2	3

80 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 80 psf	80 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	40	18 x 60	12 x 51				74	18 x 60	18 x 60				2	3
	15° to 22.5°	39	18 x 60	12 x 57				70	18 x 60	18 x 63				2	3
	22.5° to 30°	38	18 x 60	12 x 69				58	18 x 60	18 x 69				3	3
	30° to 37.5°	39	18 x 60	18 x 66				51	18 x 60	18 x 75				2	3
	37.5° to 45°	42	12 x 42	18 x 75				48	18 x 60	18 x 81				2	3

90 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 90 psf	90 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 36				92	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 39				102	18 x 60	18 x 60				2	2
	22.5° to 30°	48	12 x 30	12 x 45				106	18 x 60	18 x 60				2	2
	30° to 37.5°	50	12 x 30	12 x 48				97	18 x 60	18 x 60				2	2
	37.5° to 45°	53	12 x 30	12 x 57				91	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 36				92	18 x 60	18 x 60				2	2
	15° to 22.5°	47	12 x 30	12 x 39				101	18 x 60	18 x 60				2	2
	22.5° to 30°	47	12 x 30	12 x 45				103	18 x 60	18 x 60				2	2
	30° to 37.5°	49	12 x 30	12 x 51				92	18 x 60	18 x 60				2	2
	37.5° to 45°	52	12 x 30	12 x 60				87	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 36				92	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 30	12 x 42				99	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 30	12 x 48				98	18 x 60	18 x 60				2	2
	30° to 37.5°	48	12 x 30	12 x 54				87	18 x 60	18 x 60				2	2
	37.5° to 45°	51	12 x 30	12 x 60				82	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	46	12 x 30	12 x 36				92	18 x 60	18 x 60				2	2
	15° to 22.5°	46	12 x 30	12 x 42				96	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 30	12 x 48				93	18 x 60	18 x 60				2	2
	30° to 37.5°	47	12 x 30	12 x 54				83	18 x 60	18 x 60				2	2
	37.5° to 45°	50	12 x 30	12 x 63				78	18 x 60	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	45	12 x 30	12 x 36				91	18 x 60	18 x 60				2	2
	15° to 22.5°	45	12 x 30	12 x 42				94	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 30	12 x 51				89	18 x 60	18 x 60				2	2
	30° to 37.5°	47	12 x 30	12 x 57				79	18 x 60	18 x 60				2	2
	37.5° to 45°	50	12 x 30	12 x 66				75	18 x 60	18 x 66				2	2

90 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 90 psf	90 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		78	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	44	12 x 30	12 x 39				89	18 x 60	18 x 60				2	2
	15° to 22.5°	44	12 x 33	12 x 45				88	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 33	12 x 54				82	18 x 60	18 x 60				2	2
	30° to 37.5°	45	12 x 30	12 x 60				72	18 x 60	18 x 63				2	2
	37.5° to 45°	48	12 x 30	12 x 69				69	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	45	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		77	18 x 60	18 x 60	Yes	Yes	Yes	2	2
	7.5° to 15°	43	12 x 30	12 x 39				86	18 x 60	18 x 60				2	2
	15° to 22.5°	42	12 x 33	12 x 48				84	18 x 60	18 x 60				2	2
	22.5° to 30°	42	12 x 36	12 x 57				75	18 x 60	18 x 63				2	2
	30° to 37.5°	44	12 x 33	12 x 66				67	18 x 60	18 x 66				2	2
	37.5° to 45°	47	12 x 33	18 x 63				63	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	44	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		76	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	42	12 x 33	12 x 42				82	18 x 60	18 x 60				2	3
	15° to 22.5°	41	12 x 36	12 x 51				79	18 x 60	18 x 60				2	3
	22.5° to 30°	41	18 x 60	12 x 60				70	18 x 60	18 x 63				2	3
	30° to 37.5°	42	12 x 36	12 x 69				62	18 x 60	18 x 66				2	2
	37.5° to 45°	45	12 x 36	18 x 66				59	18 x 60	18 x 72				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 33	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	41	18 x 60	12 x 45				78	18 x 60	18 x 60				2	3
	15° to 22.5°	40	18 x 60	12 x 51				74	18 x 60	18 x 60				2	3
	22.5° to 30°	40	18 x 60	12 x 63				65	18 x 60	18 x 66				2	3
	30° to 37.5°	41	18 x 60	12 x 72				58	18 x 60	18 x 69				2	3
	37.5° to 45°	44	12 x 39	18 x 69				55	18 x 60	18 x 75				2	3

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	42	12 x 36	12 x 36	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		73	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	40	18 x 60	12 x 48				74	18 x 60	18 x 60				2	3
	15° to 22.5°	39	18 x 60	12 x 54				70	18 x 60	18 x 60				2	3
	22.5° to 30°	39	18 x 60	12 x 66				61	18 x 60	18 x 69				3	3
	30° to 37.5°	40	18 x 60	18 x 63				54	18 x 60	18 x 72				2	3
	37.5° to 45°	42	12 x 39	18 x 72				51	18 x 60	18 x 78				2	3

90 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 90 psf	90 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	42	12 x 39	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	39	18 x 60	18 x 60				70	18 x 60	18 x 60				3	3
	15° to 22.5°	38	18 x 60	12 x 57				66	18 x 60	18 x 60				3	3
	22.5° to 30°	37	18 x 60	12 x 69				58	18 x 60	18 x 69				3	3
	30° to 37.5°	38	18 x 60	18 x 66				51	18 x 60	18 x 75				3	3
	37.5° to 45°	41	18 x 60	18 x 75				48	18 x 60	18 x 81				3	3

100 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 100 psf	100 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	44	12 x 30	12 x 39				88	18 x 60	18 x 60				2	3
	15° to 22.5°	45	12 x 30	12 x 39				92	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 30	12 x 42				98	18 x 60	18 x 60				2	2
	30° to 37.5°	48	12 x 30	12 x 48				97	18 x 60	18 x 60				2	2
	37.5° to 45°	51	12 x 30	12 x 54				91	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	44	12 x 30	12 x 39				88	18 x 60	18 x 60				2	3
	15° to 22.5°	45	12 x 30	12 x 39				92	18 x 60	18 x 60				2	2
	22.5° to 30°	46	12 x 30	12 x 45				96	18 x 60	18 x 60				2	2
	30° to 37.5°	47	12 x 30	12 x 51				92	18 x 60	18 x 60				2	2
	37.5° to 45°	50	12 x 30	12 x 57				87	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	44	12 x 30	12 x 39				88	18 x 60	18 x 60				2	3
	15° to 22.5°	44	12 x 30	12 x 42				92	18 x 60	18 x 60				2	2
	22.5° to 30°	45	12 x 30	12 x 48				93	18 x 60	18 x 60				2	2
	30° to 37.5°	47	12 x 30	12 x 51				87	18 x 60	18 x 60				2	2
	37.5° to 45°	49	12 x 30	12 x 60				82	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	44	12 x 30	12 x 39				88	18 x 60	18 x 60				2	3
	15° to 22.5°	44	12 x 30	12 x 42				89	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 30	12 x 48				91	18 x 60	18 x 60				2	2
	30° to 37.5°	46	12 x 30	12 x 54				83	18 x 60	18 x 60				2	2
	37.5° to 45°	49	12 x 30	12 x 63				78	18 x 60	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	44	12 x 30	12 x 39				87	18 x 60	18 x 60				2	3
	15° to 22.5°	43	12 x 30	12 x 42				87	18 x 60	18 x 60				2	2
	22.5° to 30°	44	12 x 30	12 x 51				88	18 x 60	18 x 60				2	2
	30° to 37.5°	45	12 x 30	12 x 57				79	18 x 60	18 x 60				2	2
	37.5° to 45°	48	12 x 30	12 x 66				75	18 x 60	18 x 66				2	2

100 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 100 psf	100 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	43	12 x 30	12 x 39				84	18 x 60	18 x 60				2	3
	15° to 22.5°	42	12 x 30	12 x 45				83	18 x 60	18 x 60				2	3
	22.5° to 30°	42	12 x 33	12 x 54				82	18 x 60	18 x 60				2	2
	30° to 37.5°	44	12 x 30	12 x 60				72	18 x 60	18 x 63				2	2
	37.5° to 45°	47	12 x 30	12 x 69				69	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		74	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	42	12 x 30	12 x 39				80	18 x 60	18 x 60				2	3
	15° to 22.5°	41	18 x 60	12 x 48				79	18 x 60	18 x 60				2	3
	22.5° to 30°	41	18 x 60	12 x 57				75	18 x 60	18 x 63				2	3
	30° to 37.5°	43	12 x 33	12 x 63				67	18 x 60	18 x 66				2	2
	37.5° to 45°	45	12 x 33	12 x 72				63	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	43	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		73	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	41	18 x 60	12 x 42				77	18 x 60	18 x 60				2	3
	15° to 22.5°	40	18 x 60	12 x 48				74	18 x 60	18 x 60				2	3
	22.5° to 30°	40	18 x 60	12 x 60				70	18 x 60	18 x 63				2	3
	30° to 37.5°	41	12 x 36	12 x 66				62	18 x 60	18 x 66				2	3
	37.5° to 45°	44	12 x 36	18 x 63				59	18 x 60	18 x 72				2	2

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	42	12 x 33	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		72	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	40	18 x 60	12 x 45				73	18 x 60	18 x 60				2	3
	15° to 22.5°	39	18 x 60	12 x 51				70	18 x 60	18 x 60				2	3
	22.5° to 30°	39	18 x 60	12 x 63				65	18 x 60	18 x 66				3	3
	30° to 37.5°	40	18 x 60	12 x 72				58	18 x 60	18 x 69				2	3
	37.5° to 45°	43	12 x 39	18 x 66				55	18 x 60	18 x 75				2	3

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		70	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	39	18 x 60	18 x 60				69	18 x 60	18 x 60				3	3
	15° to 22.5°	38	18 x 60	12 x 54				66	18 x 60	18 x 60				3	3
	22.5° to 30°	38	18 x 60	12 x 66				61	18 x 60	18 x 69				3	3
	30° to 37.5°	39	18 x 60	18 x 60				54	18 x 60	18 x 72				3	3
	37.5° to 45°	41	12 x 39	18 x 72				51	18 x 60	18 x 78				2	3

100 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 100 psf	100 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		69	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				66	18 x 60	18 x 60				3	3
	15° to 22.5°	37	18 x 60	18 x 60				63	18 x 60	18 x 60				3	3
	22.5° to 30°	36	18 x 60	18 x 60				58	18 x 60	18 x 69				3	3
	30° to 37.5°	38	18 x 60	18 x 63				51	18 x 60	18 x 75				3	3
	37.5° to 45°	40	18 x 60	18 x 75				48	18 x 60	18 x 81				3	3

110 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 110 psf	110 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	42	12 x 30	12 x 39				81	18 x 60	18 x 60				2	3
	15° to 22.5°	43	12 x 30	12 x 39				84	18 x 60	18 x 60				2	3
	22.5° to 30°	44	12 x 30	12 x 42				90	18 x 60	18 x 60				2	2
	30° to 37.5°	46	12 x 30	12 x 48				97	18 x 60	18 x 60				2	2
	37.5° to 45°	48	12 x 30	12 x 54				91	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	42	12 x 30	12 x 39				81	18 x 60	18 x 60				2	3
	15° to 22.5°	43	12 x 30	12 x 39				84	18 x 60	18 x 60				2	3
	22.5° to 30°	44	12 x 30	12 x 45				90	18 x 60	18 x 60				2	2
	30° to 37.5°	46	12 x 30	12 x 51				92	18 x 60	18 x 60				2	2
	37.5° to 45°	48	12 x 30	12 x 57				87	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	42	12 x 30	12 x 39				81	18 x 60	18 x 60				2	3
	15° to 22.5°	43	12 x 30	12 x 42				84	18 x 60	18 x 60				2	3
	22.5° to 30°	43	12 x 30	12 x 45				87	18 x 60	18 x 60				2	2
	30° to 37.5°	45	12 x 30	12 x 51				87	18 x 60	18 x 60				2	2
	37.5° to 45°	48	12 x 30	12 x 60				82	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	42	12 x 30	12 x 39				81	18 x 60	18 x 60				2	3
	15° to 22.5°	42	12 x 30	12 x 42				84	18 x 60	18 x 60				2	3
	22.5° to 30°	43	12 x 30	12 x 48				85	18 x 60	18 x 60				2	2
	30° to 37.5°	44	12 x 30	12 x 54				83	18 x 60	18 x 60				2	2
	37.5° to 45°	47	12 x 30	12 x 60				78	18 x 60	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	42	12 x 30	12 x 39				81	18 x 60	18 x 60				2	3
	15° to 22.5°	42	12 x 30	12 x 42				82	18 x 60	18 x 60				2	3
	22.5° to 30°	42	12 x 30	12 x 51				83	18 x 60	18 x 60				2	2
	30° to 37.5°	44	12 x 30	12 x 57				79	18 x 60	18 x 60				2	2
	37.5° to 45°	47	12 x 30	12 x 63				75	18 x 60	18 x 66				2	2

110 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 110 psf	110 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	41	12 x 30	12 x 39				79	18 x 60	18 x 60				2	3
	15° to 22.5°	41	18 x 60	12 x 45				78	18 x 60	18 x 60				2	3
	22.5° to 30°	41	18 x 60	12 x 54				79	18 x 60	18 x 60				2	3
	30° to 37.5°	43	12 x 30	12 x 60				72	18 x 60	18 x 63				2	2
	37.5° to 45°	45	12 x 30	12 x 69				69	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	40	18 x 60	12 x 39				75	18 x 60	18 x 60				2	3
	15° to 22.5°	40	18 x 60	12 x 45				74	18 x 60	18 x 60				2	3
	22.5° to 30°	40	18 x 60	12 x 57				74	18 x 60	18 x 63				2	3
	30° to 37.5°	41	12 x 33	12 x 63				67	18 x 60	18 x 66				2	3
	37.5° to 45°	44	12 x 33	12 x 72				63	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	12 x 30	12 x 39	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		71	18 x 60	18 x 60	Yes	Yes	Yes	2	3
	7.5° to 15°	39	18 x 60	18 x 60				72	18 x 60	18 x 60				3	3
	15° to 22.5°	39	18 x 60	12 x 48				70	18 x 60	18 x 60				3	3
	22.5° to 30°	39	18 x 60	12 x 60				70	18 x 60	18 x 63				2	3
	30° to 37.5°	40	18 x 60	12 x 66				62	18 x 60	18 x 66				2	3
	37.5° to 45°	43	12 x 33	18 x 63				59	18 x 60	18 x 72				2	3

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	41	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		69	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	39	18 x 60	18 x 60				69	18 x 60	18 x 60				3	3
	15° to 22.5°	38	18 x 60	18 x 60				67	18 x 60	18 x 60				3	3
	22.5° to 30°	38	18 x 60	12 x 63				65	18 x 60	18 x 66				3	3
	30° to 37.5°	39	18 x 60	12 x 69				58	18 x 60	18 x 69				2	3
	37.5° to 45°	42	12 x 36	18 x 66				55	18 x 60	18 x 75				2	3

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		68	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				66	18 x 60	18 x 60				3	3
	15° to 22.5°	37	18 x 60	18 x 60				63	18 x 60	18 x 60				3	3
	22.5° to 30°	37	18 x 60	18 x 60				61	18 x 60	18 x 69				3	3
	30° to 37.5°	38	18 x 60	12 x 72				54	18 x 60	18 x 72				3	3
	37.5° to 45°	40	18 x 60	18 x 69				51	18 x 60	18 x 78				3	3

110 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 110 psf	110 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	39	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		67	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	37	18 x 60	18 x 60				63	18 x 60	18 x 60				3	3
	15° to 22.5°	36	18 x 60	18 x 60				60	18 x 60	18 x 60				3	3
	22.5° to 30°	36	18 x 60	18 x 60				58	18 x 60	18 x 69				3	3
	30° to 37.5°	37	18 x 60	18 x 63				51	18 x 60	18 x 75				3	3
	37.5° to 45°	39	18 x 60	18 x 72				48	18 x 60	18 x 81				3	3

120 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 120 psf	120 Snow 4-Module Sch. 40

90 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		68	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	18 x 60				78	18 x 60	18 x 60				2	3
	22.5° to 30°	42	12 x 30	12 x 42				83	18 x 60	18 x 60				2	2
	30° to 37.5°	44	12 x 30	12 x 48				90	18 x 60	18 x 60				2	2
	37.5° to 45°	46	12 x 30	12 x 54				91	18 x 60	18 x 60				2	2

95 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		68	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	18 x 60				78	18 x 60	18 x 60				2	3
	22.5° to 30°	42	12 x 30	12 x 45				83	18 x 60	18 x 60				2	2
	30° to 37.5°	44	12 x 30	12 x 48				90	18 x 60	18 x 60				2	2
	37.5° to 45°	46	12 x 30	12 x 57				87	18 x 60	18 x 60				2	2

100 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		68	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	18 x 60				78	18 x 60	18 x 60				2	3
	22.5° to 30°	42	12 x 30	12 x 45				82	18 x 60	18 x 60				2	3
	30° to 37.5°	44	12 x 30	12 x 51				87	18 x 60	18 x 60				2	2
	37.5° to 45°	46	12 x 30	12 x 57				82	18 x 60	18 x 63				2	2

105 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		68	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	18 x 60				78	18 x 60	18 x 60				2	3
	22.5° to 30°	42	12 x 30	12 x 48				80	18 x 60	18 x 60				2	3
	30° to 37.5°	43	12 x 30	12 x 54				83	18 x 60	18 x 60				2	2
	37.5° to 45°	46	12 x 30	12 x 60				78	18 x 60	18 x 63				2	2

110 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		68	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	15° to 22.5°	41	18 x 60	18 x 60				77	18 x 60	18 x 60				2	3
	22.5° to 30°	41	18 x 60	12 x 48				78	18 x 60	18 x 60				2	3
	30° to 37.5°	43	12 x 30	12 x 54				79	18 x 60	18 x 60				2	2
	37.5° to 45°	45	12 x 30	12 x 63				75	18 x 60	18 x 66				2	2

120 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 120 psf	120 Snow 4-Module Sch. 40

120 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		68	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	40	18 x 60	18 x 60				74	18 x 60	18 x 60				3	3
	15° to 22.5°	40	18 x 60	12 x 45				73	18 x 60	18 x 60				2	3
	22.5° to 30°	40	18 x 60	12 x 51				74	18 x 60	18 x 60				2	3
	30° to 37.5°	42	12 x 30	12 x 60				72	18 x 60	18 x 63				2	2
	37.5° to 45°	44	12 x 30	12 x 66				69	18 x 60	18 x 69				2	2

130 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		68	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	39	18 x 60	18 x 60				71	18 x 60	18 x 60				3	3
	15° to 22.5°	39	18 x 60	12 x 45				70	18 x 60	18 x 60				3	3
	22.5° to 30°	39	18 x 60	12 x 57				71	18 x 60	18 x 60				2	3
	30° to 37.5°	40	18 x 60	12 x 63				67	18 x 60	18 x 66				2	3
	37.5° to 45°	43	12 x 30	12 x 72				63	18 x 60	18 x 72				2	2

140 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	40	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		68	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				68	18 x 60	18 x 60				3	3
	15° to 22.5°	38	18 x 60	18 x 60				67	18 x 60	18 x 60				3	3
	22.5° to 30°	38	18 x 60	18 x 60				67	18 x 60	18 x 63				3	3
	30° to 37.5°	39	18 x 60	12 x 66				62	18 x 60	18 x 66				2	3
	37.5° to 45°	42	12 x 33	18 x 63				59	18 x 60	18 x 72				2	3

150 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	39	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		67	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	38	18 x 60	18 x 60				65	18 x 60	18 x 60				3	3
	15° to 22.5°	37	18 x 60	18 x 60				63	18 x 60	18 x 60				3	3
	22.5° to 30°	37	18 x 60	18 x 60				63	18 x 60	18 x 66				3	3
	30° to 37.5°	38	18 x 60	12 x 69				58	18 x 60	18 x 69				3	3
	37.5° to 45°	41	18 x 60	18 x 66				55	18 x 60	18 x 75				2	3

160 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	39	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		66	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	37	18 x 60	18 x 60				62	18 x 60	18 x 60				3	3
	15° to 22.5°	36	18 x 60	18 x 60				60	18 x 60	18 x 60				3	3
	22.5° to 30°	36	18 x 60	18 x 60				60	18 x 60	18 x 69				3	3
	30° to 37.5°	37	18 x 60	18 x 60				54	18 x 60	18 x 72				3	3
	37.5° to 45°	40	18 x 60	18 x 69				51	18 x 60	18 x 78				3	3

120 Snow 4-Module Sch. 40	Configuration Tables for SnapNrack Series 200 Ground-Mount PV System 1-1/2" Schedule 40 Galvanized Steel Pipe with 4-Module Panels Ground Snow Load up to 120 psf	120 Snow 4-Module Sch. 40

170 mph Wind Speed		Standard Installation						Braced Installation						# of Rails Required Per Panel	
		Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			Max Pipe Span (PS, in)	Concrete Pier Size1 (in)		Required Braces			60-Cell Modules	72-Cell Modules
			Short Leg	Tall Leg	A	C	D		Short Leg	Tall Leg	A	E	F		
Tilt Angle	0° to 7.5°	38	18 x 60	18 x 60	Yes	Braces C & D based on site SDS: SDS <= 1.0: Every Third Bay SDS <= 2.0: Every Second Bay SDS > 2.0: Every Bay		65	18 x 60	18 x 60	Yes	Yes	Yes	3	3
	7.5° to 15°	36	18 x 60	18 x 60				60	18 x 60	18 x 60				3	3
	15° to 22.5°	35	18 x 60	18 x 60				57	18 x 60	18 x 60				3	3
	22.5° to 30°	35	18 x 60	18 x 60				56	18 x 60	18 x 69				3	3
	30° to 37.5°	36	18 x 60	18 x 63				51	18 x 60	18 x 75				3	3
	37.5° to 45°	39	18 x 60	18 x 72				48	18 x 60	18 x 81				3	3