

Mounting Systems, Mounting Devices, Clamping Devices and Ground Lugs for Use with Photovoltaic Modules and Panels

COMPANY

SUNRUN SOUTH LLC, DBA SNAPNRACK

775 Fiero Ln

Suite 200

San Luis Obispo, CA 93401 United States

E359313

Cat. No.	Investigated for Bonding	Investigated for Mechanical Loading	System Fire Classification (A, B or C)	Tested in Combination With
Photovoltaic mounting system				

<p>Series 200 - Consisting of the Following Components: Kee Klamp Tee, Speed Rail Tee, Speed Rail Single Swivel, Threaded Pipe Coupler, Pipe Clamp Assembly, Ground Rail, Mid Clamp, X End Clamp, Universal End Clamp</p>	<p>Y*</p>	<p>Y – Minimum mechanical load ratings defined by UL 2703 for all modules listed</p>	<p>N</p>	<p>Listed PV Modules, where XXX is the wattage value. All wattage values are covered:</p> <p>Aptos Solar: DNA-120-MF23-XXX DNA-120-BF23-XXX DNA-144-MF23-XXX DNA-144-BF23-XXX DNA-120-MF26-XXXW, DNA-120-MF26-XXXW, DNA-144-MF26-XXXW DNA-120-BF26-XXXW DNA-144-BF26-XXXW</p> <p>Boviet Solar: BVM6610P-XXX BVM6610M-XXX BVM6612P-XXX BVM6612M-XXX</p> <p>Canadian Solar: CS6K-XXX-M CS6K-XXX-M-SD CS6K-XXX-P CS6K-XXX-P-SD CS6K-XXX-MS CS6P-XXX-M CS6P-XXX-P CS6P-XXX-P-SD CS6V-XXX-M CS3W-XXX-P CS6V-XXX-P CS6X-XXX-P CS3K-XXX-P CS3K-XXX-MS CS3U-XXX-MS CS3U-XXX-P CS1K-XXX-MS CS1H-XXX-MS CS1H-XXX-MS-AB CS1Y-XXX-MS CS3N-XXX-MS CS1Y-XXX-MS CS3W-XXXMB-AG CS3Y-XXXMB-AG CS6W-XXXMB-AG CS6R-XXXMS-HL CS3W-xxxMS CS3W-xxxP, where xxx is 385 to 450</p> <p>CertainTeed - CTXXXHC11-06, CTXXXHC11-06.</p> <p>Chint Solar: CHSM6612M-XXX CHSM6612M/HV-XXX CHSM6612M(BL)-XXX</p> <p>**CHSM72M-HC-XXX (Astro 4) **CHSM72M-HC-XXX (Astro 5)</p>
--	-----------	--	----------	--

Feedback

<p>UR-40 Mounting and Bonding Systems for use with Photovoltaic Modules, consisting of the following components: UR-40 Rail, Mid Clamp, X End Clamp, Universal End Clamp, UR-40 Splice, UR-40 Composition Mount Kits, SpeedSeal Foot Mount Kit, SpeedSeal Deckfoot Mount Kit for UR-40, Standard Standoff for UR-40, Four Hole Standoff for UR-40, Heavy Duty Standoff for UR-40, OmniBase Standoff for UR-40, Metal Roof Base Standoff for UR-40, UR-40 Corrugated Block, Standard Base Seam Clamp for UR-40, Wide Base Seam Clamp for UR-40, UR-40 Universal Tile Hook, UR-40 Flat Tile Hook, UR-40 Tile Hook F, UR-40 Tile Hook WS, Flat Tile Replacement Kit for UR-40, S Tile Replacement Kit for UR-40, W Tile Replacement Kit for UR-40, UR-40 Hanger Bolt Clamp, UR-40 Tilt Kits, SnapNrack Ground Lug Models 242-02101 or 242-92202, IlSCO Ground Lug Models GBL-4DBT or SGB-4, UR-40 Skirt Assembly, MLPE Frame Attachment Kit, MLPE Rail Attachment Kit, Smart Clips, Tilt Kits, Seam Clamp Simple Tilt Kits, Adjustable Tile Hook, OmniShield</p>	<p>Y*</p>	<p>Y – Minimum mechanical load ratings defined by UL 2703 for all modules listed</p>	<p>Y – Class A with and without skirt assembly for Type 1, Type 2 and Type 29 modules</p>	<p>Dehui Solar: DH-M760B-XXXW DH-M760W-XXXW DH-M772W-XXXW DH-M760F-XXXW DH-M772F-XXXW</p> <p>ET Solar: ET-P660XXXBB ET-P660XXXWB ET-P660XXXWW ET-P660XXXWWG P660XXXWB/WW P660XXXWWG M660XXXBB M660XXXWW</p> <p>Freedom Forever Procurement: FF-MP-BBB-xxx, where xxx is 365 to 410.</p> <p>Hanwha/Q Cells: Q.PEAK BLK-G3.1-XXX Q.PEAK G3.1-XXX Q.PLUS BFR-G3.1-XXX B.LINE PLUS BFR-G4.1-XXX B.LINE PRO BFR-G4.1-XXX Q.BASE GY-XXX Q.PEAK BFR-G4-XXX Q.PEAK BFR-G4.1-XXX Q.PEAK BLK-G4.1-XXX Q.PEAK BLK-G4.1/TAA-XXX Q.PEAK G4-XXX Q.PEAK G4.1-XXX Q.PEAK G4.1/MAX-XXX Q.PEAK G4.1/TAA-XXX Q.PLUS BFR-G4-XXX Q.PLUS BFR-G4.1-XXX Q.PLUS BFR-G4.1/TAA-XXX Q.PLUS G4-XXX Q.PLUS GY-XXX Q.PLUS BFR-GY-XXX Q.PRO BFR-G4-XXX Q.PRO BFR-G4.1-XXX Q.PRO BFR-G4.3-XXX Q.PRO BFR-GY-XXX Q.PRO BLK-GY-XXX Q.PRO G4-XXX Q.PRO GY-XXX Q.PRO GY/SC-XXX Q.PEAK DUO-G6+-XXX Q.PEAK DUO-BLK-G6+-XXX Q.PEAK DUO-G6-XXX Q.PEAK DUO-BLK-G6-XXX Q.PEAK DUO-G8+-XXX Q.PEAK DUO-BLK-G8+-XXX Q.PEAK DUO-G8-XXX Q.PEAK DUO-BLK-G8-XXX Q.PLUS L-G4-XXX Q.PLUS L-G4.1-XXX Q.PLUS L-G4.2-XXX Q.PEAK L-G4.1-XXX Q.PEAK L-G4.2-XXX Q.PLUS DUO-L-G5-XXX</p>
---	-----------	--	---	--

Q.PLUS DUO-L-G5.1-XXX
 Q.PLUS DUO-L-G5.2-XXX
 Q.PLUS DUO-L-G5.3-XXX
 Q.PEAK DUO-L-G5.2-XXX
 Q.PEAK DUO-L-G5.3-XXX
 Q.PEAK DUO-L-G7-XXX
 Q.PEAK DUO-L-G7.1-XXX
 Q.PEAK DUO-L-G7.2-XXX
 Q.PEAK DUO-L-G7.3-XXX
 Q.PEAK DUO-L-G6-XXX
 Q.PEAK DUO-L-G6.2-XXX
 Q.PEAK DUO-L-G6.3-XXX
 Q.PEAK DUO-L-G8-XXX
 Q.PEAK DUO-L-G8.1-XXX
 Q.PEAK DUO-G5-XXX
 Q.PEAK DUO-BLK-G5-XXX
 Q.PLUS DUO-G5-XXX
 Q.PEAK DUO-G7-XXX
 Q.PEAK DUO-BLK-G7-XXX
 Q.PEAK DUO-G7.2-XXX
 Q.PEAK DUO BLK-G6+/AC-XXX
 Q.PEAK DUO-ML-G9-XXX
 Q.PEAK DUO BLK-G5/TS-XXX
 Q.PEAK DUO G6+/TS-XXX
 Q.PEAK DUO BLK-G6+/TS-XXX
 Q.PEAK DUO XL-G9.3-XXX
 Q.PEAK DUO-L-G8.2-XXX
 Q.PEAK DUO-L-G8.3-XXX
 Q.PEAK DUO-G5/SC-XXX
 Q.PEAK DUO-BLK-G5/SC-XXX
 Q.PEAK DUO-G6+/SC-XXX
 Q.PEAK DUO-BLK-G6+/SC-XXX
 Q.PEAK DUO-BLK-ML-G9-XXX
 Q.PEAK DUO-G5/TS-XXX
 Q.PEAK DUO-G6/TS-XXX
 Q.PEAK DUO BLK-G6/TS-XXX
 Q.PEAK DUO XL-G9.2-XXX
 Q.PEAK DUO BLK-G9-XXX
 Q.PEAK DUO ML-G9+-XXX
 Q.PEAK DUO BLK-G9+-XXX
 Q.PEAK DUO BLK ML-G9+-XXX
 Q.PEAK DUO XL-G10.2-XXX
 Q.PEAK DUO XL-G10.3-XXX
 Q.PEAK DUO XL-G10.d-XXX
 Q.PEAK DUO L-G8.3/BGT-XXX
 Q.PEAK DUO BLK ML-G10+-XXX
 Q.PEAK DUO BLK ML-G10-XXX
 Q.PEAK DUO BLK ML-G10.a+-XXX
 Q.PEAK DUO BLK ML-G10.a-XXX
 Q.PEAK DUO XL-G9.3/BFG-XXX
 Q.PEAK DUO XL-G10.3/BFG-XXX
 Q.PEAK DUO XL-G10.c-XXX
 Q.PEAK DUO L-G8.3/BFG-XXX
 Q.PEAK DUO ML-G10-XXX
 Q.PEAK DUO ML-G10+-XXX
 Q.PEAK DUO ML-G10.a+-XXX
 Q.PEAK DUO ML-G10.a-XXX
 Q.PEAK DUO BLK ML-G10.a+/TS-XXX,
 Q.PEAK DUO G10-XXX, Q.PEAK DUO BLK-
 G10-XXX, Q.PEAK DUO G10+-XXX, Q.PEAK
 DUO BLK-G10+-XXX
 Q.TRON-G1+ XXX

Q.TRON BLK-G1+ XXX
 Q.PEAK DUO BLK G10+/AC XXX
 Q.PEAK DUO BLK G10+/HL XXX
 Q.PEAK DUO XL-G11.3 XXX
 Q.PEAK DUO XL-G11.3 BFG XXX

HT-SAAE:

HT60-166M-XXX where XXX is 340-390;
 HT60-182M-XXX

Hanwha Solar One:

HSL60P6-PB-2-XXXQ
 HSL60P6-PB-4-XXXQ

Heliene:

60M-XXX
 60P-XXX
 72M-XXX
 72P-XXX

Runergy:

HY-DH108P8-XXX(Y)

Hyundai:

HiS-MXXXRG
 HiS-SXXXRG
 HiS-SXXXRW
 HiA-SXXXMS
 HiS-MXXXMG
 HiS-SXXXMG
 HiD-SXXXRG
 HiS-SXXXXY
 HiS-SXXXXYI
 HiS-SxxxYH

All may be followed by (BK)

JA Solar:

JAM6-60-XXX/SI
 JAP6-60-XXX/3BB
 JAM60S09-XXX/PR
 JAM60S10-XXX/MR
 JAM60S10-XXX/PR
 JAM60S12-XXX/PR
 JAM60S17-XXX/MR
 JAP72S01-XXX/SC
 JAM72S09-XXX/PR
 JAM72S10-XXX/MR
 JAM72S10-XXX/PR
 JAM72S12-XXX/PR
 JAP6(k)-72-XXX/4BB
 JAM54S30-XXX/MR where XXX is 400-410,
 JAM54S31-XXX/MR
 JAM72D30-XXX/MB

Jinko Solar:

JKMXXXM-60
 JKMXXXP-60
 JKMXXXP-60-J4
 JKMXXXP-60-V
 JKMXXXP-60B-J4
 JKMXXXPP-60
 JKMXXXPP-60-V

JKMXXXM-60HL
 JKMXXXM-60L
 JKMXXXM-60HBL
 JKMXXXM-72
 JKMXXXP-72
 JKMXXXP-72-V
 JKMXXPP-72
 JKMXXPP-72-V
 JKMSXXXP-72
 JKMXXXM-72HL-V
 JKMXXXM-72HL-TV
 JKMXXXM-72L-V
 JKMXXXM-72HBL
 JKMXXXM-6TL3-B
 JKMXXXM-6RL3-B
 JKMXXXM-7RL3-V
 JKMXXXM-7RL3-TV
 JKMXXXM-72HL4-V JKMXXXM-72HL4-TV

Kyocera:
 KUXXX-6YYY
 KUXXX-8YYY

LG:
 LGXXN1C-A5
 LGXXN1K-A5
 LGXXQ1C-A5
 LGXXQ1K-A5
 LGXXS1C-A5
 LGXXN2C-B3
 LGXXN2W-B3
 LGXXN1C-G4
 LGXXN1K-G4
 LGXXS1C-G4
 LGXXN2C-G4
 LGXXN2K-G4
 LGXXN2W-G4
 LGXXS2C-G4
 LGXXS2W-G4
 LGXXN1C-V5
 LGXXN1W-V5
 LGXXN2T-V5
 LGXXN2T-J5
 LGXXN1T-V5
 LGXXA1C-V5
 LGXXM1C-L5
 LGXXN1C-N5
 LGXXM1K-L5
 LGXXN1K-L5
 LGXXN1C-A6
 LGXXQ1C-A6
 LGXXM1K-A6
 LGXXA1C-A6
 LGXXN1K-A6
 LGXXN1W-A6
 LGXXQ1K-A6
 LGXXM1C-A6
 LGXXQAK-A6
 LGXXN2W-E6
 LGXXN1K-E6
 LGXXQAC-A6

<p>UR-60 Mounting and Bonding Systems for use with Photovoltaic Modules, consisting of the following components: UR-60 Rail, Mid Clamp, X End Clamp, Universal End Clamp, UR-60 Splice, UR-60 Composition Mount Kits, SpeedSeal Foot Mount Kit, Standard Standoff for UR-60, Four Hole Standoff for UR-60, Heavy Duty Standoff for UR-60, OmniBase Standoff for UR-60, Metal Roof Base Standoff for UR-60, UR-60 Corrugated Block, Standard Base Seam Clamp for UR-60, Wide Base Seam Clamp for UR-60, UR-60 Universal Tile Hook, UR-60 Flat Tile Hook, UR-60 Tile Hook F, UR-60 Tile Hook WS, Flat Tile Replacement Kit for UR-60, S Tile Replacement Kit for UR-60, W Tile Replacement Kit for UR-60, UR-60 Hanger Bolt Clamp, UR-60 Tilt Kits, SnapNrack Ground Lug Models 242-02101 or 242-92202, IlSCO Ground Lug Models GBL-4DBT or SGB-4, UR-40 Skirt Assembly, MLPE Frame Attachment Kit, MLPE Rail Attachment Kit, Smart Clips, Tilt Kits, Adjustable Tile Hook.</p>	<p>Y*</p>	<p>Y – Minimum mechanical load ratings defined by UL 2703 for all modules listed</p>	<p>Y – Class A with and without skirt assembly for Type 1, Type 2 and Type 29 modules</p>	<p>LGXXXN1K-B6 LGXXXN2T-E6 LGXXXN3K-V6</p> <p>Longi: LR6-60-XXXM LR6-60BK-XXXM LR6-60HV-XXXM LR6-60PB-XXXM LR6-60PE-XXXM LR6-60PH-XXXM LR6-60HPB-XXXM LR6-60HPH-XXXM LR4-72HPH-XXXM LR4-60HIB-XXXM LR4-60HIH-XXXM LR4-60HPB-XXXM LR4-60HPH-XXXM LR6-60HIB-XXXM LR6-60HIH-XXXM</p> <p>Meyer Burger: Meyer Burger Black ** Meyer Burger White **</p> <p>Mission Solar: MSEXXS05T MSEXXS05K MSEXXSQ5T MSEXXSQ5K MSEXXMM4J MSEXXMM6J MSEXXS06W MSEXXS04J MSEXXS06J MSEXXSQ6S MSEXXSQ4S MSEXXS8K MSEXXS8T MSEXXS9S MSE60AXX MEXXTS60 MEXXSX5K MEXXSX5T MEXXSX6S MEXXSX6W TXI6-XXX120BB MEXXSX5R, where xxx is 375 to 390</p> <p>Next Energy Alliance: USNEA-XXXM3-60 USNEA-XXXM3B-60 USNEA-XXXM3-72 USNEA-XXXM3B-72</p> <p>Panasonic: VBHNXXXKA01 VBHNXXXKA02 VBHNXXXSA16 VBHNXXXKA03 VBHNXXXKA04 VBHNXXXSA17</p>
---	-----------	--	---	---

VBHNXXXSA18
VBHNXXXSA17E
VBHXXXRA18N
VBHXXXRA03K
EVPVXXX(K)

Phono Solar:

PSXXXM-20/U
PSXXXMH-20/U
PSxxxM8GF-24/TH where xxx is 520 to 550,
PSxxxM8GFH-24/TH, where xxx is 520 to 550,
PSxxxM8GF-18/VH, where xxx is 390 to 410,
PSxxxM8GFH-18/VH, where xxx is 390 to 410,
PSxxxM6-24/TH, where xxx is 510 to 550.

REC:

RECXXXPE
RECXXXPE-BLK
RECXXXTP
RECXXXTP-BLK
RECXXXTP IQ
RECXXXTP2
RECXXXTP2-BLK
RECXXXNP
RECXXXTP2M
RECXXXTP72
RECXXXPE72
RECXXXPE72XV
RECXXXTP2M 72
RECXXXTP2M 72 BLK
RECXXXTP2M 72 BLK2
RECXXXTP2SM 72
RECXXXTP2SM 72 BLK
RECXXXTP2SM 72 BLK2
RECXXXAA
RECXXXTP3
RECXXXTP3M
RECXXXTP4
RECXXXAA Pure
RECXXXNP2
- All may be followed by BLK or BLACK

Renesola:

JCXXXM-24/Bb
JCXXXM-24/BBh

SEG Solar:

SEG-XXX-BMB-HV,
SEG-xxx-BMB-TB

Silfab:

SLAXXX-M
SLAXXX-P
SSAXXX-M
SSAXXX-P
SLGXXX-M
SLGXXX-P
SSGXXX-M
SSGXXX-P
SILXXXBL

SILXXXML
SILXXXNT
SILXXXHL
SILXXXNL
SILXXXBK
SILXXXNX
SILXXXNU
SILXXXHC
SILXXXHN
SILXXXBG
SIL-xxxHC+, where xxx 380 to 420,
SIL-xxxHM where xxx is 480 to 520.

Solaria:
Solaria PowerXT-XXXR-PX
Solaria PowerXT-XXXR-BX
Solaria PowerXT-XXXR-AC
Solaria PowerXT-XXXR-PM
Solaria PowerXT-XXXR-PM-AC

SolarWorld:
SWXXX-Mono
SWXXX-Mono XL

Suniva:
MVX-XXX-60-5-701
MVX-XXX-60-5-7B1
OPT-XXX-60-4-100
OPT-XXX-60-4-1B0
OPT-XXX-60-4-800
OPT-XXX-60-4-8B0

Sunpower:
SPR-EYY-XXX
SPR-EYY-XXX
SPR-XYY-XXX
SPR-XYY-XXX
SPR-AXXX-G-AC
SPR-AXXX
SPR-AXXX-BLK-G-AC
SPR-AXXX-BLK
SPR-MXXX-H-AC
SPR-MXXX
SPR-MXXX-BLK-H-AC
SPR-MXXX-BLK

SunSpark:
SST-XXXM3-60
SST-XXXM3B-60
SST-XXXM3-72
SST-XXXM3B-72

Talesun:
TP660M-XXX
TP660P-XXX
TP672M-XXX
TP672P-XXX

Tesla:
TXXXS
TXXXH

Trina:
 TSM-XXXDD05(II)
 TSM-XXXDD05A.05(II)
 TSM-XXXDD05A.08(II)
 TSM-XXXDD05A.082(II)
 TSM-XXXPA05
 TSM-XXXPA05.05
 TSM-XXXPA05.08
 TSM-XXXPD05
 TSM-XXXPD05.002
 TSM-XXXPD05.05
 TSM-XXXPD05.05S
 TSM-XXXPD05.08
 TSM-XXXPD05.082
 TSM-XXXPD05.08D
 TSM-XXXPD05.08S
 TSM-XXXDD05H.05(II)
 TSM-XXXDD06M.05(II)
 TSM-XXXDE15H(II)
 TSM-XXXDE15M(II)
 TSM-XXXDE06X.05(II)
 TSM-XXXDE09.05
 TSM-XXXDE15V(II)
 TSM-XXXDE19
 TSM-XXXDEG15VC.20(II)
 TSM-XXXDEG18MC.20(II)
 TSM-XXXDEG19C.20
 TSM-XXXDEG21C.20
 TSM-XXXDE09C.05
 TSM-XXXDE09C.07

Vikram Solar:
 Somera VSMHBB.60.XXX.05
 SOMERA VSMH.72.XXX.05
 PREXOS VSMDHT.60.XXX.05
 PREXOS VSMDHT.72.XXX.05

VSUN Solar:
 VSUNXXX-144BMH-DG,
 VSUNXXX-120BMH,
 VSUNXXX-108BMH

Yingli:
 YLXXXA-29b
 YLXXXP-29b

ZNShine:
 ZXM6-60-XXX/M
 ZXM6-NH120-XXXM, ZXM6-NH144-XXXM
 ZXM7-SH108-XXX/M

REC Solar, model
 RECxxxAA Pure-R, where
 xxx can be 390-430

REC Solar, model
 RECxxxNP3, where xxx
 can be 380-410

Trina Solar, model
 TSM-xxxNE09RC.05,
 where xxx can be 365-430

Feedback

<p>MightyMount – Metal-T consisting of the following: Track, Short Leg, Tall Leg, Pinned Channel Nut, Ultra Rail Mid Clamp, Ultra Rail End Clamp, Wire Management Clips, Ground Lugs, MLPE Rail Attachment Kit and MLPE Frame Attachment Kit, OmniShield.</p>	<p>Y</p>	<p>N</p>	<p>Y – Class A when mounted with Type 1, 2 or 3 modules per Exception of 11.1 of UL 2703</p>	<p>SEG Solar, model SEG-xxx-BMD-HV & SEG-xxx-BMD-TB, where xxx can be 370-425</p> <p>Aptos Solar, model DNA-108-MF10-xxxW, where xxx can be 390-415</p> <p>NRTL Listed Module Level Power Electronics:</p> <p>Rapid Shutdown Devices:</p> <p>AP Smart: Model RSD-S-PLC</p> <p>Celestica International: DG-006-F001201x DG-006-F001401x</p> <p>Delta Electronics: GPI00010105</p> <p>Ginlong Technologies: Solis-RSD-1G Solis-MLRSD-R1-1G Solis-MLRSD-R2-1G</p> <p>SMA: RSB-2S-US-10</p> <p>Microinverters:</p> <p>Enphase: M250 M215 C250 IQ6-60-2-US IQ6PLUS-72-2-US IQ7-60-2-US IQ7-60-B-US IQ7PLUS-72-2-US IQ7PLUS-72-B-US IQ8-60 IQ8PLUS-72 IQ8A-72 IQ8H-208-72 IQ8H-240-72</p> <p>Optimizers:</p> <p>Generac – Optimizer model S2502</p> <p>SolarEdge: P300-5NC4ARS P320-5NC4ARS P370-5NC4AFS P400-5NC4AFS P320 P340</p>
---	----------	----------	--	---

- P370
- P400
- P401
- P405
- P485
- P505
- P730
- P800p
- P850
- P860
- P950
- S440
- S500
- P1100
- P1101

Monitoring Devices:

- Tigo:
- TS4-R-F
- TS4-R-M
- TS4-R-O
- TS4-R-S
- TS4-R-M-DUO
- TS4-R-O-DUO
- TS4-R-S-DUO
- TS4-A-F
- TS4-A-2F
- TS4-A-O
- TS4-A-S

<p>MightyMount Comp-S consisting of the following: Comp-S Track, Ultra Rail Mid Clamp, Ultra Rail End Clamp, Wire Management Clips, Ground Lugs, MLPE Rail Attachment Kit and MLPE Frame Attachment Kit.</p>	<p>Y</p>	<p>N</p>	<p>Y – Class A with and without skirt assembly for Type 1, Type 2 and Type 29 modules</p>	
--	----------	----------	---	--

--	--	--	--	--	--

<p>RL Universal Mounting System</p> <p>USL - Mounting and Bonding Systems for use with Photovoltaic Modules, consisting of the following components: Mount Assembly, Ridge Mount Assembly, Umbrella Flashing Assembly, SpeedSeal Track Assembly, SpeedSeal Decktrack Assembly, Link Assembly, Wire Management Clips, Ground Lugs, MLPE Rail Attachment Kit and MLPE Frame Attachment Kit.</p>	<p>Y*</p>	<p>N</p>	<p>Y – Class A with and without skirt assembly for Type 1, Type 2 and Type 29 modules</p>	<p>Aptos Solar: DNA-120-MF23-XXX DNA-120-BF23-XXX DNA-144-MF23-XXX DNA-144-BF23-XXX DNA-120-MF26-XXXW, DNA-120-MF26-XXXW, DNA-144-MF26-XXXW DNA-120-BF26-XXXW DNA-144-BF26-XXXW DNA-120-BF10-xxx, where xxx is 435 to 455, DNA-108-BF10-xxx, where xxx is 385 to 410</p> <p>Canadian Solar: CS6K-XXX-M CS6K-XXX-M-SD CS6K-XXX-P CS6K-XXX-P-SD CS6K-XXX-MS CS3K-XXX-P CS3W-XXX-P CS3N-XXX-MS CS3K-XXX-MS CS3U-XXX-MS CS3U-XXX-P CS1K-XXX-MS CS1H-XXX-MS CS1H-XXX-MS-AB CS1Y-XXX-MS CS3W-XXXMB-AG CS3Y-XXXMB-AG CS6W-XXXMB-AG CS6R-XXXMS-HL CS3W-xxxMS CS3W-xxxP, where xxx is 385 to 450</p> <p>CertainTeed - CTXXXHC11-06, CTXXXHC11-06.</p> <p>Chint Solar: CHSM6612M-XXX CHSM6612M/HV-XXX CHSM6612M(BL)-XXX **CHSM72M-HC-XXX (Astro 4) **CHSM72M-HC-XXX (Astro 5)</p> <p>Dehui Solar: DH-M760B-XXXW DH-M760W-XXXW DH-M772W-XXXW DH-M760F-XXXW DH-M772F-XXXW</p> <p>Freedom Forever Procurement: FF-MP-BBB-xxx, where xxx is 365 to 410.</p> <p>Hanwha/Q Cells: Q.PEAK DUO-G5-XXX Q.PEAK DUO-BLK-G5-XXX Q.PLUS DUO-G5-XXX</p>
---	-----------	----------	---	--

Feedback

Q.PEAK DUO-G7-XXX
 Q.PEAK DUO-BLK-G7-XXX
 Q.PEAK DUO-G7.2-XXX
 Q.PEAK DUO-G6+-XXX
 Q.PEAK DUO-BLK-G6+-XXX
 Q.PEAK DUO-G6-XXX
 Q.PEAK DUO-XL-G9.3-XXX
 Q.PEAK DUO-BLK-G6-XXX
 Q.PEAK DUO-G8+-XXX
 Q.PEAK DUO-BLK-G8+-XXX
 Q.PEAK DUO-G8-XXX
 Q.PEAK DUO-BLK-G8-XXX
 Q.PEAK DUO BLK-G6+/AC-XXX
 Q.PEAK DUO-ML-G9-XXX
 Q.PEAK DUO-BLK-ML-G9-XXX 365-385
 Q.PEAK DUO XL-G9.2-XXX
 Q.PEAK DUO BLK-G9-XXX
 Q.PEAK DUO ML-G9+-XXX
 Q.PEAK DUO BLK-G9+-XXX
 Q.PEAK DUO BLK ML-G9+-XXX
 Q.PEAK DUO XL-G10.2-XXX
 Q.PEAK DUO XL-G10.3-XXX
 Q.PEAK DUO XL-G10.d-XXX
 Q.PEAK DUO L-G8.3/BGT-XXX
 Q.PEAK DUO BLK ML-G10+-XXX
 Q.PEAK DUO BLK ML-G10-XXX
 Q.PEAK DUO BLK ML-G10.a+-XXX
 Q.PEAK DUO BLK ML-G10.a-XXX
 Q.PEAK DUO XL-G9.3/BFG-XXX
 Q.PEAK DUO XL-G10.3/BFG-XXX
 Q.PEAK DUO XL-G10.c-XXX
 Q.PEAK DUO L-G8.3/BFG-XXX
 Q.PEAK DUO ML-G10-XXX
 Q.PEAK DUO ML-G10+-XXX
 Q.PEAK DUO ML-G10.a+-XXX
 Q.PEAK DUO ML-G10.a-XXX, Q.PEAK DUO
 G10-XXX, Q.PEAK DUO BLK-G10-XXX,
 Q.PEAK DUO G10+-XXX, Q.PEAK DUO BLK-
 G10+-XXX
 Q.TRON-G1+ XXX
 Q.TRON BLK-G1+ XXX
 Q.PEAK DUO BLK G10+/AC XXX
 Q.PEAK DUO BLK G10+/HL XXX
 Q.PEAK DUO XL-G11.3 XXX
 Q.PEAK DUO XL-G11.3 BFG XXX

HT-SAAE:
 HT60-166M-XXX where XXX is 340-390;
 HT60-182M-XXX

Heliene:
 60M-XXX
 60P-XXX
 72M-XXX
 72P-XXX

Runergy:
 HY-DH108P8-XXX(Y)

Hyundai:
 HiA-SXXXMS

HiS-SXXXXY
 HiS-SXXXXYI
 HiS-SxxxYH
 All may be followed by (BK)

JA Solar:
 JAM60S09-XXX/PR
 JAM72S09-XXX/PR
 JAM60S10-XXX/MR
 JAM72S10-XXX/MR
 JAM60S10-XXX/PR
 JAM72S10-XXX/PR
 JAM60S12-XXX/PR
 JAM72S12-XXX/PR
 JAM60S17-XXX/MR
 JAM54S30-XXX/MR where XXX is 400-410,
 JAM54S31-XXX/MR
 JAM72D30-XXX/MB

Jinko Solar:
 JKMXXXM-60
 JKMXXXP-60
 JKMXXXP-60-J4
 JKMXXXP-60-V
 JKMXXXP-60B-J4
 JKMXXXPP-60
 JKMXXXPP-60-V
 JKMXXXM-60HL
 JKMXXXM-60L
 JKMXXXM-60HBL
 JKMXXXM-72
 JKMXXXP-72
 JKMXXXP-72-V
 JKMXXXPP-72
 JKMXXXPP-72-V
 JKMSXXXP-72
 JKMXXXM-72HL-V
 JKMXXXM-72HL-TV
 JKMXXXM-72L-V
 JKMXXXM-72HBL
 JKMXXXM-6TL3-B
 JKMXXXM-6RL3-B
 JKMXXXM-7RL3-V
 JKMXXXM-7RL3-TV JKMXXXM-72HL4-V
 JKMXXXM-72HL4-TV

LG:
 LGXXXN1C-A5
 LGXXXN1K-A5
 LGXXXQ1C-A5
 LGXXXQ1K-A5
 LGXXXS1C-A5
 LGXXXN2C-B3
 LGXXXN2W-B3
 LGXXXN1C-G4
 LGXXXN1K-G4
 LGXXXS1C-G4
 LGXXXN2C-G4
 LGXXXN2K-G4
 LGXXXN2W-G4
 LGXXXS2C-G4
 LGXXXS2W-G4

LGXXXN1C-V5
 LGXXXN1W-V5
 LGXXXN2T-V5
 LGXXXN2T-J5
 LGXXXN1T-V5
 LGXXXA1C-V5
 LGXXXM1C-L5
 LGXXXN1C-N5
 LGXXXN1C-A6
 LGXXXQ1C-A6
 LGXXXM1K-A6
 LGXXXA1C-A6
 LGXXXN1K-A6
 LGXXXN1W-A6
 LGXXXQ1K-A6
 LGXXXM1C-A6
 LGXXXQAK-A6
 LGXXXN2W-E6
 LGXXXN1K-E6
 LGXXXQAC-A6
 LGXXXN1K-B6
 LGXXXN2T-E6
 LGXXXN3K-V6

Longi:

LR6-60-XXXM
 LR6-60BK-XXXM
 LR6-60HV-XXXM
 LR6-60PB-XXXM
 LR6-60PE-XXXM
 LR6-60PH-XXXM
 LR6-60HPB-XXXM
 LR6-60HPH-XXXM
 LR4-72HPH-XXXM
 LR4-60HIB-XXXM
 LR4-60HIH-XXXM
 LR6-60HIB-XXXM
 LR4-60HPB-XXXM
 LR4-60HPH-XXXM
 LR6-60HIH-XXXM

Meyer Burger:

**Meyer Burger Black
 **Meyer Burger White

Mission Solar:

MSEXXS05T
 MSEXXS05K
 MSEXXSQ5T
 MSEXXSQ5K
 MSEXXMM4J
 MSEXXMM6J
 MSEXXS06W
 MSEXXS04J
 MSEXXS06J
 MSEXXSQ6S
 MSEXXSQ4S
 MSEXXS8K
 MSEXXS8T
 MSEXXS9S
 MSE60AXX
 MSEXXS5T MSEXXS5K

MSEXXXSX6W
 MSEXXXSX6S
 TXI6-XXX120BB
 MSeXXXSX5R, where xxx is 375 to 390

Next Energy Alliance:
 USNEA-XXXM3-60
 USNEA-XXXM3B-60
 USNEA-XXXM3-72
 USNEA-XXXM3B-72

Panasonic:
 VBHNXXXKA03
 VBHNXXXKA04
 VBHNXXXSA17
 VBHNXXXSA18
 VBHNXXXSA17E
 VBHXXXRA18N
 VBHXXXRA03K
 EVPVXXX(K)
 EVPVXXXH
 EVPVXXXPK

Phono Solar:
 PSXXXM-20/U
 PSXXXMH-20/U
 PSxxxM8GF-24/TH where xxx is 520 to 550,
 PSxxxM8GFH-24/TH, where xxx is 520 to 550,
 PSxxxM8GF-18/VH, where xxx is 390 to 410,
 PSxxxM8GFH-18/VH, where xxx is 390 to 410,
 PSxxxM6-24/TH, where xxx is 510 to 550.

REC:
 RECXXTP2
 RECXXTP2-BLK
 RECXXTP2M
 RECXXTP2M 72
 RECXXTP2M 72 BLK
 RECXXTP2M 72 BLK2
 RECXXTP2SM 72
 RECXXTP2SM 72 BLK
 RECXXTP2SM 72 BLK2
 RECXXXAA
 RECXXTP3M
 RECXXXNP
 RECXXTP4
 RECXXXAA Pure
 RECXXXNP2

- All may be followed by BLK or BLACK

SEG Solar:
 SEG-XXX-BMB-HV,
 SEG-xxx-BMB-TB

Silfab:
 SLAXXX-M
 SLAXXX-P
 SSAXXX-M
 SSAXXX-P
 SLGXXX-M

Feedback

<p>TopSpeed Mounting System</p> <p>USL - Mounting and Bonding Systems for use with Photovoltaic Modules, consisting of the following components: Mount, Row Link, Skirt Assembly, Wire Management Clips, Ground Lugs, MLPE Frame Attachment Kit.</p>	<p>Y*</p>	<p>N</p>	<p>Y – Class A with and without skirt assembly for Type 1, Type 2 and Type 29 modules</p>	<p>SLGXXX-P SSGXXX-M SSGXXX-P SILXXXBL SILXXXML SILXXXNT SILXXXHL SILXXXNL SILXXXBK SILXXXNX SILXXXNU SILXXXHC SILXXXHN SILXXXBG</p> <p>Solaria: Solaria PowerXT-XXXR-PX Solaria PowerXT-XXXR-BX Solaria PowerXT-XXXR-AC Solaria PowerXT-XXXR-PM Solaria PowerXT-XXXR-PM-AC</p> <p>SunPower: SPR-AXXX-G-AC SPR-AXXX SPR-AXXX-BLK-G-AC SPR-AXXX-BLK SPR-MXXX-H-AC SPR-MXXX SPR-MXXX-BLK-H-AC SPR-MXXX-BLK</p> <p>SunSpark: SST-XXXM3-60 SST-XXXM3B-60 SST-XXXM3-72 SST-XXXM3B-72</p> <p>Talesun: TP660M-XXX TP660P-XXX TP672M-XXX TP672P-XXX</p> <p>Trina: TSM-XXXDD05(II) TSM-XXXDD05A.05(II) TSM-XXXDD05A.08(II) TSM-XXXDD05A.082(II) TSM-XXXPA05 TSM-XXXPA05.05 TSM-XXXPA05.08 TSM-XXXPD05 TSM-XXXPD05.002 TSM-XXXPD05.05 TSM-XXXPD05.05S TSM-XXXPD05.08 TSM-XXXPD05.082 TSM-XXXPD05.08D TSM-XXXPD05.08S TSM-XXXDD05H.05(II)</p>
--	-----------	----------	---	--

TSM-XXXDD06M.05(II)
 TSM-XXXDE15H(II)
 TSM-XXXDE15M(II)
 TSM-XXXDE06X.05(II)
 TSM-XXXDE09.05
 TSM-XXXDE15V(II)
 TSM-XXXDE19
 TSM-XXXDEG15VC.20(II)
 TSM-XXXDEG18MC.20(II)
 TSM-XXXDEG19C.20
 TSM-XXXDEG21C.20
 TSM-XXXDE09C.05
 TSM-XXXDE09C.07

Vikram Solar:
 SOMERA VSMHBB.60.XXX.05
 SOMERA VSMH.72.XXX.05
 PREXOS VSMDHT.60.XXX.05
 PREXOS VSMDHT.72.XXX.05

VSUN Solar:
 VSUNXXX-144BMH-DG,
 VSUNXXX-120BMH,
 VSUNXXX-108BMH

ZNShine:
 ZXM6-60-XXX/M
 ZXM6-NH120-XXXM, ZXM6-NH144-XXXM,
 ZXM7-SH108-XXX/M

REC Solar, model
 RECxxxAA Pure-R,
 where xxx can be 390-430

REC Solar, model
 RECxxxNP3, where
 xxx can be 380-410

Trina Solar, model
 TSM-xxxNE09RC.05, where
 xxx can be 365-430

SEG Solar, model
 SEG-xxx-BMD-HV &
 SEG-xxx-BMD-TB, where
 xxx can be 370-425

Aptos Solar, model
 DNA-108-MF10-xxxW, where
 xxx can be 390-415

NRTL Listed Module Level Power
 Electronics:

Rapid Shutdown Devices:

AP Smart:
 Model RSD-S-PLC

Celestica International:
 DG-006-F001201x
 DG-006-F001401x

Delta Electronics:
GPI00010105

Ginlong Technologies:
Solis-RSD-1G
Solis-MLRSD-R1-1G
Solis-MLRSD-R2-1G

SMA:
RSB-2S-US-10

Microinverters:

Enphase:
M250
M215
C250
IQ6-60-2-US
IQ6PLUS-72-2-US
IQ7-60-2-US
IQ7-60-B-US
IQ7PLUS-72-2-US
IQ7PLUS-72-B-US
IQ8-60
IQ8PLUS-72
IQ8A-72
IQ8H-208-72
IQ8H-240-72

Optimizers:

SolarEdge:
P300-5NC4ARS
P320-5NC4ARS
P370-5NC4AFS
P400-5NC4AFS
P320
P340
P370
P400
P401
P405
P485
P505
P730
P800p
P850
P860
P950
S440
S500
P1100
P1101

Monitoring Devices:

Tigo:
TS4-R-F
TS4-R-M
TS4-R-O
TS4-R-S

242-02151	20	0.8 - 2.4	2.0 - 3.2	2.0	8.1 - 8.5	10 ft.lb.	PV Modules Described in Mounting Systems noted above with frame thickness limitations.
-----------	----	-----------	-----------	-----	-----------	-----------	--

The following components have been tested for roof penetration utilizing the Wind-Driven Rain Test from UL Subject 2582:

Cat. No.	Tested with the Following Securement Means	Tested with the Following Seal/Sealant & Specific Location	Tested with the Following Roof Deck Construction
Photovoltaic mounting system component			
RL Universal Mounting System - Umbrella Bolt Flashing consisting of Composition flashing, Flash Track PRC, Flash Track End Caps, Umbrella Bolt; SpeedSeal Track.	Lag Bolt	No sealant	Asphalt shingles
UR-40 Mounting System - Consisting of the following components: Composition flashing, Umbrella L-foot, Umbrella Bolt; SpeedSeal Foot Assembly kit	Lag Bolt	No sealant	Asphalt shingles
UR-60 Mounting System - Consisting of the following components: Composition flashing, Umbrella L-foot, Umbrella Bolt, and SpeedSeal Foot Assembly kit	Lag Bolt	No sealant	Asphalt shingles

* - Not all components have been evaluated for bonding. See UL report and instruction manual for details.

** - These modules are not considered for Fire as they are not type 1, 2 or 29 rated.

Trademark and/or Tradename: "SNAPNRACK"

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2023 UL LLC."