



The Standard for Waterproof Flexible Flashing Since 1994

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**List of PV Modules compatible with RT APEX rail-less PV mounting system.**

The Roof Tech RT-APEX rail-less PV mounting system is certified to UL 2703 and may be used to ground and/or mount a PV module complying with UL 1703 only when the specific module has been evaluated for grounding and/or mounting in compliance with the included instructions. Unless otherwise noted, “xxx” refers to the module power rating and both black and silver frames are included in the certification. The following list of PV modules have been evaluated to UL 2703 Ed.1. Revision May, 2022

MANUFACTURER	MODEL
Torque 16Nm	
Aptos Solar	DNA-144-MF23-xxxW, DNA-144-BF23-xxxW, DNA-120-BF23-xxxW, DNA-120-MF23-xxxW
Axitec	AC-xxxP/156-60S, AC-xxxM/156-60S AC-xxxP/156-72S, AC-xxxMH/120(S or V)
Canadian Solar	CS6U-xxx CS6K-xxx, P-SD,P,M,MS, AB,CS6K-xxxP, CS6K-MS- xxx CS6X-xxxP CS1H-MS CS3K-MS CS6P-xxx-xxx P-SD CS3L-xxxMS, CS3N-xxxMS, CS1Y-xxxMS, CS3W-P, CS3W-MS, CS3W-PB-AG, CS3W-MB-AG
Heliene	60P, 60M

JA Solar	<p>JAP6 60-xxx, JAM6-60-xxx/SI, JAM6(K)-60/xxx, JAP6(k)-72-xxx/4BB, JAP72SY-xxx/ZZ, JAP6(k)-60-xxx/4BB, JAP60SY-xxx/ZZ,</p> <p>JAM6(k)-72-xxx/ZZ, JAM72SY-xxx/ZZ, JAM6(k)-60-xxx/ZZ, JAM60SY-xxx/ZZ, JAM 72S09</p> <p>i. YY: 01 white backsheet, 02 black backsheet, 03 half-cell and white backsheet, 09 M4 cell, 10 M4 1/2 cell</p> <p>ii. ZZ: SC standard cell, PR = perc, BP = bifacial, HiT = HIT, IB = IBC, MW = MWT</p>
Japan Solar	<p>JS-xxxU-LI60</p> <p>JS-xxxM-LI60</p> <p>JS-xxxU-LI72</p> <p>JS-xxxM-LI72</p> <p>JS-xxxM-TC160</p> <p>JS-xxxU-RJ160</p> <p>JPS285/290M-60</p>
Meyer Burger	<p>Meyer Burger Black xxx, Meyer Burger Glass xxx, Meyer Burger White xxx</p>
Peimar	<p>SG360M, SG270/280P, SG290/300M (FB), SG300/310M (FB), SG325/330P</p>
REC	<p>RECxxx Alpha Series, RECxxx N-Peak Energy Series</p> <p>RECxxx Alpha72 Series, RECxxxTwinPeak 3M Series</p> <p>RECxxxAA Alpha Black Series, RECxxxNP Black Series</p> <p>RECxxxTP 2SM 72, RECxxxTP3M Black series</p> <p>RECxxxAA Pure Black, RECxxx NP2, RECxxxNP2 Black, RECxxxTP4 Black, RECxxx AA Pure, RECxxx TP4</p>
Silfab	<p>SLA-M xxx</p> <p>SLG-M xxx</p> <p>SLA-X</p> <p>SLG-X</p> <p>SLA-P xxx</p> <p>SLG-P xxx</p> <p>SSA-M</p> <p>SSG-M</p> <p>SSA-P xxx</p> <p>SSG-P xxx</p> <p>SIL-xxx NL</p>

Solaria	XT-xxxR-PD XT-xxxR-BD XT-xxxR-PX XT-xxxR-PM-AC XT-xxxR-PM XT-xxxR-BX
SolarWorld	SW xxx POLY (33mm black frame), SW 275-280 MONO BLACK (33mm frame), SW xxx-xxx XL MONO (33mm frame), SW xxx-xxx MONO (33mm frame), SW xxx-xxx MONO (33mm frame, 5 buster), SW xxx- xxx MONO BLACK (33mm frame)
Suniva	OPT xxx-60-4-100, OPT xxx-60-4-1B0, OPT xxx-72-4- 100
Trina	TSM-DE15H(II), TSM-DE15M(II) TSM-DD06M.05(II), TSM-DD06M.08(II) TSM-DEG15HC.20(II), TSM-DEG15MC.20(II) TSM-DEG6MC.20(II)
VSUN	VSUNxxx-60M-BB, VSUNxxx-72M
Yingli	YL xxxP-29b, YL xxxP-35b, YLxxxD-30b(xxx=Pmax), YLxxxD-36b(xxx=Pmax)

<b>LG (16Nm Torque)</b>	<b>LGxxxQ1K-A6, LGxxxQ1C-A6. LGxxxQAC-A6, LGxxxQAK-A6, LGxxxA1C-A6, LGxxxN1C-A6, LGxxxN1K-A6, LGxxxM1C-A6, LGxxxM1K-A6, LGxxxN2W-E6, LGxxxN2T-E6, LG xxxA1C-V5, LGxxxN1K-L5, LGxxxN1C-N5, LGxxxN1K-A6, LGxxxN1C-A6, LGxxxW-BIFACIAL, LGxxxW-MONO, LGxxxN1C(K)-V5, LGxxxQ1C(K)-V5, LGxxxNxW(T)-VS, LGxxxQ1C(K)-N5, LGxxxN1K-L5, LGxxxN2W(T)-L5</b>
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**Torque: 18Nm**

Astronova	CHSM6612P, CHSM6612P/HV
Astroenergy	CHSM6612M-HV-xxx, CHSM6612P-HV-xxx, CHSM72M(DG)/F-BH, CHSM72M-HC xxxW, CHSM72M(DG)/F-BH xxxW
BYD	P6K Series (35mm), MHK-36
Certainteed	CTxxxMxx-01, CTxxxPxx-01, CTxxxMxx-02 Where “xx” denotes frame and backsheet color. CT-03 Series CTxxxHC11-04
Dehui Solar	DH-60M xxx-xxxW
Eco Solargy	ORION 1000 ECOXXXH156P-60, APOLLO 1000 ECOXXXT156M-60, and APOLLO 1000 ECOXXXA156M- 60.
ET Solar	ETAC Module, ET Module.
GCL	40mm frame: GCL-P6/72 35mm frame: GCL-P6/72, GCL-P6/72H, GCL-M6/72, GCL- M6/72H 35mm frame (Black frame): GCL-P6/60, GCL-M6/60
Hansol	TD-AN3 (40mm), TD-AN4, UB-AN1 (35mm), UD-AN1 (40mm), UB-AN1, UD-AN1
HT Solar	HT60-156(M) (NDV) (-F), HT 72-156(M/P)
Hyundai	HiA-SxxxHI, KG, MG, TG, RI, RG, TI, MI, KI series (35mm and 40mm).
ITEK	iT-xxx, iT-xxx-HE, iT-xxx-SE, iT-xxx-SE-72 (40mm).
Jinko	Eagle PERC 280-300, JKMxxxM, Eagle PERC 280-300, JKMxxxM, Eagle JKM275PP-60, JKMxxxPP-60, Eagle JKM275PP-60, JKMxxxPP-60, Eagle JKM330PP-72, JKMxxxPP-72, Eagle JKM330PP-72, JKMxxxPP-72, Eagle JKM280PP-60-J4, Smart MX 255-320, JKM xxxM-60HBL, JKMxxxM-72 HL-V, JKMxxxM-72HL-TV, JKM xxxM-66H, JKM xxxM-66H-V
Kyocera	KD 260GX-LFB2, KD265GX-LFB2, KU265-6MCA

LG	<p>MONO X, MONO X 2, Mono X Plus, Mono Neon 2, Mono Neon 2</p> <p>LGxxxN1C-V5, LGxxxN1K-V5, LGxxxN2W-V5, LGxxxN2T-V5, LGxxxQ1C-V5, LGxxxQ1K-V5, LG xxx S1C-L4, LG xxx N1C-G4, LGxxxN1T-V5, LGxxxN2W-B3, LGxxxN2W-G4, LG xxx S1C-A5, LG xxx N1C-A5, LGxxxQ1C(Q1K)-A5, LGxxxN1C(N1K)-A5, LGxxxS1C-A5, LGxxxA1C-A5, LGxxxN2T-A5, LGxxxN2W-A5, LGxxxS2W-A5, LGxxxE1C-A5, LGxxxN1C(N1K)-G4, LGxxxS2W-G4, LGxxxS1C-G4, LGxxxE1K-A5,</p>
LONGi	<p>LR6-60PH 290-310M, LR6-72HV 330-350M, LR6-72PH 360-380M</p> <p>LR6-60HPB-xxxM, LR6-60HPH-xxxM, LR6-72HPH-xxxM, LR4-60HPB/HIB-xxxM, LR4-60HPH/HIH-xxxM, LR4-72HPH/HIH-xxxM</p>
Mission Solar	MSE series
Mitsubishi	MJE, MLE
NSP	D6M and D6P
Panasonic	<p>VBHN240SA11, VBHN325SA16 and 16B, VBHN330SA16 and 16B</p> <p>VBHNxxxSA17, VBHNxxxSA17E, VBHNxxxKA03, VBHNxxxRA18N,</p> <p>VBHxxxRA18N, VBHxxxRA03K, VBHxxxRA18E, VBHxxxRA03F, VBHxxxRA18G, EVPVxxx, EVPVxxxK, VBHNxxxKA03E</p>
Phono Solar	PS-xxx-60, PS-xxx-72
Renesola	Virtus II with module ratings of 250-260 in increments of 5. 156 series with module ratings of 270-275.
S-Energy	<p>SN3xxM-10/SN3xxP-10 (40mm), SNxxxM-10/SN2xxP- 10 (40mm),</p> <p>SNxxxP-15 (40mm)</p>
Seraphim	<p>SRP-6MA xxxW, SEG-6MA-xxx, SEG-BMA-xxx, SRP 6MB xxxW,</p> <p>SEG-6MB-xxx, SEG-BMB-xxx, SRP-6MB-BB xxxW, SRP-6PA xxxW, SEG-6PA-xxx, SRP-6MA-xxx, SRP-BMA-xxx, SRP-6MB-xxx,</p> <p>SRP-BMB-xxx</p>

Sharp	60 and 72 NUSA-xxx/NUSC-xxx
Sonali	SS 230 - 265
SunSpark	Mono Module SST-xxxW (60 and 72 cells)
Suntech	STP 35/40
Winaico	WSP-xxxM6 PERC, WSP-xxxM6, WST-xxxP6BF, WST- xxxP6SF
Manufacturer	PV module Model No.
Hanwha Q-Cells	<p>Q.PEAK DUO R XXX (R is the Model listed and xxx is the Power)</p> <p>G5, BLK-G5, G6, BLK-G6, G6+, BLK-G6+, G7, BLK-G7, G8, BLK-G8, G8+, BLK-G8+, Q PEAK DUO BLK ML-G10</p> <p>L-G5.X, L-G6.X, L-G7.X, L-G8.X, L-G8.3/BFG, L-G8.3/BFF (Where X can be 0 – 9)</p> <p>G5/SC, BLK-G5/SC, G6+/SC, BLK-G6+/SC, BLK-G6+/AC</p>

**Hanwha Note:**

Torque value of 18Nm and mounting on the long side of PV module:

Hanwha Q-Cells modules in Portrait option for bonding is the DynoBond. Please see Pages 63 and Page 66