

1.7 Mechanical Loading Specifications and Module Compatibility

To be used only in combination with modules that include this specific rack system in their installation manual.

PV Modules Mechanically Load and Grounding/Bonding Tested per UL 2703 Ed. 1 (2015) Standard

(XXX denotes module power rating and includes both black and silver frames)

Tested Modules			Design Load Ratings		
Module Manufacturer	Model Number	Surface Area (sf)	Downward Pressure Test Load (psf)	Upward Pressure Test Load (psf)	Downslope Test Load (psf)
Canadian Solar	CS6X-XXXP	20.67	10	5	5
Hyundai	HiS-SXXXRG	17.62	10	5	5
LG Electronics	LGXXXS1C-G4	17.65	10	5	5
SolarWorld	Sunmodule Plus	18.05	10	5	5
Sunpower	SPR-E20-XXX	17.54	10	5	5

*Module Orientation: Portrait or Landscape

*Maximum Module Size: 24 ft²

*Maximum Number of Modules: 30 x10 (Landscape); 50 x 6 (Portrait), a total of 300 max

Compatible PV Modules Grounding/Bonding Evaluated

(XXX denotes module power rating and includes both black and silver frames)

Evaluated Modules

Manufacturer	Model Numbers
Axitec	AC-XXXMH-120S
Canadian Solar	CS6K-XXXMS, CS6K-XXXM, CS6K-XXXP, CS6P-XXXP, CS6U-XXXM, CS6U-XXXP, CS6X-XXXP, CS6X-XXXM, CS1K-XXXMS, CS1H-XXX-MS, CS1U-XXX-MS, CS3K-XXX-P, CS3K-XXX-P-AG, CS3K-XXX-MS, CS3K-XXX-MS-AG, CS3L-XXX-P, CS3L-XXX-MS, CS3W-XXX-P, CS3W-XXX-MS, CS3U,XXX-P, CS3U-XXX-P-AG, CS3U-XXX-MS, CS3U-XXX-MS-AG.
CSUN	CSUNXXX-72M
Ecosolargy	ECOXXXT156M-60, ECOXXXH156P-72
ET Solar	ET-P660XXXWX
GCL	GCL-M3-60-XXX
Hanwha Q Cell	Q.PEAK-G4.1XXX, Q.PEAK-BLK-G4.1XXX, Q.PEAK-DUO-BLK-G5XXX, Q.PEAK-G5XXX, Q.PEAK-DUO-G5 XXX, Q.PEAK-DUO-L-G5.3XXX
Hyundai	HiS-MXXXMF, HiS-SXXXMF, HiS-MXXXMG, HiS-SXXXMG, HiS-MXXXRG, HiS-SXXX-RG, HiS-SXXX-RG(BK)
JA Solar	JAP6(K)-60XXX/4BB, JAM60S01-XXX/PR, JAM60S09-XXX-PR, JAP60S09-XXX-SC
Japan Solar	JS-XXXM-LI72
Jinko Solar	JKM-XXXPP-60, JKMXXXM-60, JKM-XXXM-60H, JKM-XXXM-60HBL

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Compatible PV Modules Grounding/Bonding Evaluated

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Evaluated Modules

Manufacturer	Model Numbers
Longi Solar	LR6-72HV-XXXM
LG Electronics	LG-XXXN1C-G4, LG-XXXN1K-G4, LG-XXXS1C-G4, LG-XXXN1C-A5, LG-XXXN1K-A5, LG-XXXQ1C-A5, LG-XXXN2T-A5, LG-XXXN1C-V5, LG-XXX-A1C-V5, LG-XXX-N1K-V5, LG-XXX-Q1C-V5, LG-XXX-Q1K-V5
Mission Solar	MSE-XXX-SQ5K, MSE-XXX-SQ5T, MSE-XXX-SQ8K, MSE-XXX-SQ8T, MSE-XXX-SQ9S, MSE-XXX-SR8K, MSE-XXX-SR8T
Panasonic	VBHNXXXSA16, VBHXXXSA17, VBHN-XXX-KA03, VBHN-XXX-RA03K, VBHN-XXX-RA18N
Peimar	SGXXXP
REC Solar	RECXXXT2, RECXXXP
Risen	RSM72-6-XXXP
Silfab	SLA-MXXX
Solaria	PowerXT XXXR-XX, PowerXT-XXXR-PD, PowerXT-XXR-PM
SolarTech	STU-HJTB-W-XXX
SolarWorld	Sunmodule Bisun SW XXX duo, Sunmodule Pro-Series SW XXX Poly Wob, Sunmodule Protect SW XXX Mono Black, Sunmodule SW XXX XL Mono, Sunmodule Plus SW XXX Mono.
Sunpower	SPR-X21-XXX, SPR-E20-XXX
Talesun	TP660P XXX
Trina Solar	TSM-DD05A.0X(II) XXX, TSM-PD05.0X XXX, TSM-DD055A.08(II)XXX, TSM-DD5A.A5(II)XXX, TSM-DD05H.05(II)XXX