

1.0 Reference and Address			
Report Number	101194906MPK-003	Original Issued: 20-Aug-2013	Revised: 7-May-2018
Standard(s)	Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels [UL 2703:2015 Ed.1]		
Applicant	<u>Quick Mount PV</u>	Manufacturer	<b>Quick Mount PV</b>
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Legal Name	Wencon Development, Inc.		

<b>2.0 Product Description</b>	
Product	Solar Panel Rack Mounting System installed using Quick Rack Patented Rail-Free Mounting System fo Composition/Asphalt Shingle Roofs Installation Manual Mar-2018 Rev V
Brand name	Quick Rack
Description	<p>The product covered by this report is an on-roof PV module racking system from Quick Mount PV. The system is primarily composed Aluminum components, while stainless steel hardware torqued to specific values electrically bond all module frames to the system. Aluminum Short Clamps, Long Clamps and Panel Clamps with integrated stainless steel set screws/pins penetrate the anodized aluminum frames of listed PV modules in order to electrically bond the modules to the racking systems. The Quick Rack system is intended to be roof -mounted, it is non-integral and must be mounted over a fire resistant roof covering material. The Quick Rack system is attached to the roof using a lag screw and a sealing washer through the QBlock slider of the base mount assembly. The method of securement of the rack system to the roof is not part of this listing. An installation instruction manual is provided. The rack system is not fully assembled from the factory; the system ships in subassemblies and is field assembled. The instructions are detailed to facilitate total assembly of the product. This product includes the solar panel rack system and does not include the PV modules that mount within it. The PV modules used with the solar panel rack system shall be certified Listed PV modules, under UL1703.</p> <p>The grounding of the entire system is intended to be in accordance with the latest edition of the National Electrical Code, including NEC 250: Grounding and Bonding, and NEC 690: Solar Photovoltaic Systems. Any local electrical codes must be adhered in addition to the national electrical codes. An entire array, regardless of size, is grounded via one llscos ground lug placed on any top slider of the base mount assembly or mount to any module at the module manufacturers specified location per llscos instructions.</p> <p>The Quick Rack system has been tested in combination with Quick Mount PV's Accessory Frame Bracket and Enphase's Frame Mount provided by Quick Mount PV or Enphase Energy. These products are recognized components of Quick Mount PV's Quick Rack system.</p> <p>Enphase micro-inverters and Engage Cable may be used to ground Quick Rack system in place of grounding lug if there are a minimum of 3 PV modules connected to the same Engage Cable while all bonded together into a single array. Microinverters must be mounted with QMPV or Enphase Frame Mount per the suppliers instructions.</p>
Models	Quick Rack
Model Similarity	NA

<b>2.0 Product Description</b>	
Ratings	<p>Maximum Series Fuse Rating: 20 A</p> <p>Mechanical Load Ratings: Downward Pressure: 50 psf Upward Pressure: 35 psf Downslope Pressure: 23.4 psf</p> <p>Fire Class Resistance Rating without Skirt: Class A for Steep Slope Applications when using Type 1 or Type 2 Listed Photovoltaic Module.</p> <p>Fire Class Resistance Rating with Skirt: Class A for Steep Slope Applications when using Type 1 or Type 2 Listed Photovoltaic Module.</p>
Other Ratings	<p>Modules can be placed in portrait and landscape orientation.</p> <p>Maximum Number of Panels: 30 x 10 (Landscape); 50 x 6 (Portrait), a total of 300 modules max.</p>

**7.0 Illustrations**

**Illustration 1A-** Evaluated and Approved Modules for use with Quick Rack per ANSI/UL 2703 Edition 1.

Module Manufacturer	Model
LG Solar	LGXXS1C-G3, LGXXS1C-A3, LGXXS1C-B3, LGXXS1K-G3, LGXXS1K-A3, LGXXS1K-B3, LGXXN1C-G3, LGXXN1C-A3, LGXXN1C-B3, LGXXA1C-B3, LGXXS1C-G4, LGXXN1K-G4, LGXXN1C-G4, LGXXA1C-G4, LGxxxQ1C-A5, LGxxxE1C-A5, LGxxxN1K-A5, LGxxxN1C-A5, LGxxxS1C-A5, LGxxxQ1K-A5, LGxxxE1K-A5, LGXXXQ1K-A5, LGXXA1C-A5
Trina Solar	TSM-XXX-PA05.05, TSM-XXX-PA05.08, TSM-XXX-PD05.05, TSM-XXX-PD05.08, TSM-DD05A.08(II), TSM-DD05A.05(II), TSM-DD05A(II), TSM-PD05.08, TSM-PD05.05
Yingli Solar	YLXXXP-29b, YLXXXP-29b 1500V, YLXXD-30b
Suniva	Black OPT XXX-60-4-1B0, Black OPT XXX-60-4-1B1, Silver OPT XXX-60-4-100, Silver OPT XXX-60-4-101
Renesola	JCXXS-24/Bb, JCXXF-24/Bb-b, JCXXS-24/Bb-b, JCXXM-24/Bb, JXXM-24/Bbv, JCXXM-24/Bb, JCXXM-24/Bbh, JCXXM-24/Bbs, JCXXM-24/Bbw
Hyundai Solar	HiS-MXXXRG, HiS-SXXXRG, HiS-SXXXMF, HiS-MXXXMG, HiS-SXXXMG
Axitec	AC-XXXP/156-60S, AC-XXXM/156-60S, AC-XXXP/156-60SE, ACXXM/156-60SE
Winaico	WST-XXXP6
Phono Solar	PSXXXP-20/U, PSXXM-20/U
Canadian Solar	CS6P-XXXP, CS6P-XXXM, CS6P-XXXM All Black, CS6K-XXXP, CS6K-XXXP (1500V), CS6K-XXXM, CS6K-XXXM (1500 V), CS6K-XXXM All Black, CS6P-XXXP-SD, CS6K-XXXM-SD, CS6K-XXMS-SD, CS6K-XXX-P-SD, CS6K-XXMS, CS6K-XXMS All Black, CS3K-P, CS3K-MS
SolarWorld	SWXXX POLY, SWXXX-MONO, SWXXX-MONO BLACK, SWXXX POLY WOB, SWA protect XXX duo, SWA protect XXX duo clear, SW XXX DUO, SWA XXX MONO, SWA XXX MONO BLACK, SWA XXX POLY, SWA XXX-MONO, SWA XXX-MONO BLACK
Panasonic	VBHNxxxSA17, VBHNxxxSA11, VBHNxxxSA16, VBHNxxxSA16B, VBHNxxxSA15, VBHNxxxSA15B, VBHNxxxKA01, VBHNxxxKA03, VBHNxxxSA17
Jinko Solar	JKMxxxP-60, JKMxxxPP-60, JKMxxxP-60B, JKMxxxPP-60B, JKMxxxPP-60(Plus), JKMxxxP-60-J4, JKMxxxPP-60-J4, JKMxxxP60B-J4, JKMxxxPP60B-J4, JKMxxxPP-60-V, JKMxxxM-60, JKMxxxM-60-V, JKMxxxM-60B, JKMxxxM-60-J4, JKMxxxM60B-J4, JKMSxxxP-60, JKMSxxxP-60-J4, JKMSxxxM-60, JKMSxxxM-60-J4, JKMSxxxPP-60-J4, JKMSxxxPP-60, JKMSxxxM-60B-EP
Mission Solar	MSExxxSQ5T, MSExxxSQ5K, MSExxxSO5T, MSExxxSO5K
Solaria	PowerXT-xxxR-PX, PowerXT-xxxR-BX

**7.0 Illustrations**

**Illustration 1B-** Evaluated and Approved Modules for use with Quick Rack per ANSI/UL 2703 Edition 1.

Module Manufacturer	Model
Boviet Solar	BVM6610M-xxx, BVM6610P-xxx
Seraphim Solar USA	SRP-xxx-6MB-BB, SRP-xxx-6MB, SRP-xxx-6PB
Silfab Solar	SLA-M-xxx, SLG-M-xxx, SLA-X-xxx, SLG-X-xxx, SLA-P-xxx, SLG-P-xxx, SSA-M-xxx, SSG-M-xxx, SSA-P-xxx, SSG-P-xxx
REC	REC Twin Peak 2 (BLK), REC Twin Peak 2 BLK2, REC N-Peak
Hanwha Q Cells	Q.Peak-G3 XXX, Q.Peak blk-G3 XXX, Q.Plus-G3 XXX, Q.PEAK DUO-G5 xxx, Q.PEAK DUO BLK-G5 xxx, Q.PEAK G4.1 xxx, Q.PEAK BLK-G4.1 xxx, Q.PEAK-G4.1/MAX xxx, Q.PEAK-G4.1/TAA xxx, Q.PEAK BLK G4.1/TAA xxx, Q.PLUS G4 xxx, Q.PLUS BFR G4.1 xxx, Q.PLUS BFR G4.1/MAX xxx, Q.PLUS BFR G4.1/TAA xxx, Q.PRO G4 xxx, Q.PRO BFR G4 xxx, Q.PRO BFR 4.1 xxx, Q.PRO BFR 4.3 xxx, Q.PRO EC-G4.4 xxx, B.LINE PLUS BFR G4.1 xxx, B.LINE PRO BFR G4.1 xxx, G3
BenQ Green Triplex	PM060M02-XXX, PM060P00-XXX, PM245P00-XXX, PM250M01-XXX, PM245P03-XXX, PM060M02-Plus
ET Solar	ET-M660XXXBB, ET-M660XXXWW/WB, ET-P660XXXBB, ET-P660XXXWW/WB, Anti-glare
Hanwha Solar HSL 60 & HSL 72	HSL60P6-PB-0-XXXT(W/B), HSL60-P6-PB-4-XXXT(W/B), HSL60P6-PB-1-XXX(W/B), HSL60P6-PA-0-XXXT (W/B), HSL60P6-PA-4-XXXT (W/B), HSL60P6-PB-2-XXXQ (W/B), HSL60P6-PB-3-XXXQ (W/B)