


1.0 Reference and Address			
Report Number	160801795SHA-001	Original Issued: 23-Jan-2017	Revised: 10-Jul-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>Magerack Corporation</u>	Manufacturer	<b><u>Botou Magellan Metal Manufacturing Co., Ltd.</u></b>
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2.0 Product Description		
Product	PV Roof Mount Racking System	
Brand name		
Description	<p>The Magerack Corporation PV Roof Mount Racking System includes special frames integrated on the PV panel, L Bracket, several types of foot, grounding lug, magebolts and connectors to connect the PV panel. An installation instruction manual is provided. PV Roof Mount Racking System are 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. The panel rack systems are intended to be roof-mounted (Steep-Sloped Systems), it is non-integral and must be mounted over a fire resistant roof covering material. The mounting of the entire system on the roof such as the connection between the foot and the roof is not evaluated. This shall not negatively impact on the roof safety and shall be investigated to the latest edition of the building code.</p> <p>The system is primarily composed of stainless steel components and aluminum alloy components.</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 to thenational electrical codes.</p> <p>This product includes the PV Roof Mount Racking System and does not include the PV modules that mount within it. The PV modules used with the PV Roof Mount Racking System shall be certified Listed PV modules, under UL1703. The Solar Panel Rack Systems are intended to be used with typical PV modules which employ the specified frames. The specified frames shall be evaluated under UL1703 with the typical PV modules.</p> <p>PV Modules Makers and Models used for mechanical loading test:  Boviet Solar Technology Co., Ltd. - BVM6610P-xxx series, BVM6610M-xxx series  Jinko Solar Co., Ltd. - JKMxxxM-60 series</p> <p>PV Modules Makers and Models used for fire test:  Boviet Solar Technology Co., Ltd. - BVM6610P-260</p>	
Models	MageMount Rail-less Solar Mounting System, MageMount II Rail-less Solar Mounting System	
Model Similarity	<p>MageMount II Rail-less Solar Mounting System is designed only for normal frame. Because the MageFrame is not used in MageMount II Rail-less Solar Mounting System, MageMount II Rail-less Solar Mounting System is similar to MageMount Rail-less Solar Mounting System, except the following components:</p>	
	Components used in MageMount II Rail-less Solar Mounting System	Components used in MageMount Rail-less Solar Mounting System
	normal frame (not listed in 4.0)	MageFrame
	normal frame corner keys (not listed in 4.0)	MageFrame Corner Keys
	301-101 Module connector	201-101 Module Connector
	301-206 Module Bracket	201-106 MageBolt with Flange Nut
	301-204 Accessory Bracket	201-104 Accessory Mounting Bracket
	301-280 & 301-290 Cable Clip	201-108 Cable Clip
Grounding Lug (May be provided by other manufacturers)	201-110 Grounding Lug	

<b>2.0 Product Description</b>	
Ratings	Maximum Series Fuse Rating: 15 A System Fire Class Rating: Class A (Steep-Sloped Systems)  Design load rating: Downward Pressures – 30psf Upward Pressure – 30 psf Down-Slope Load – 5 psf
Other Ratings	Modules can be placed in portrait and landscape mode.