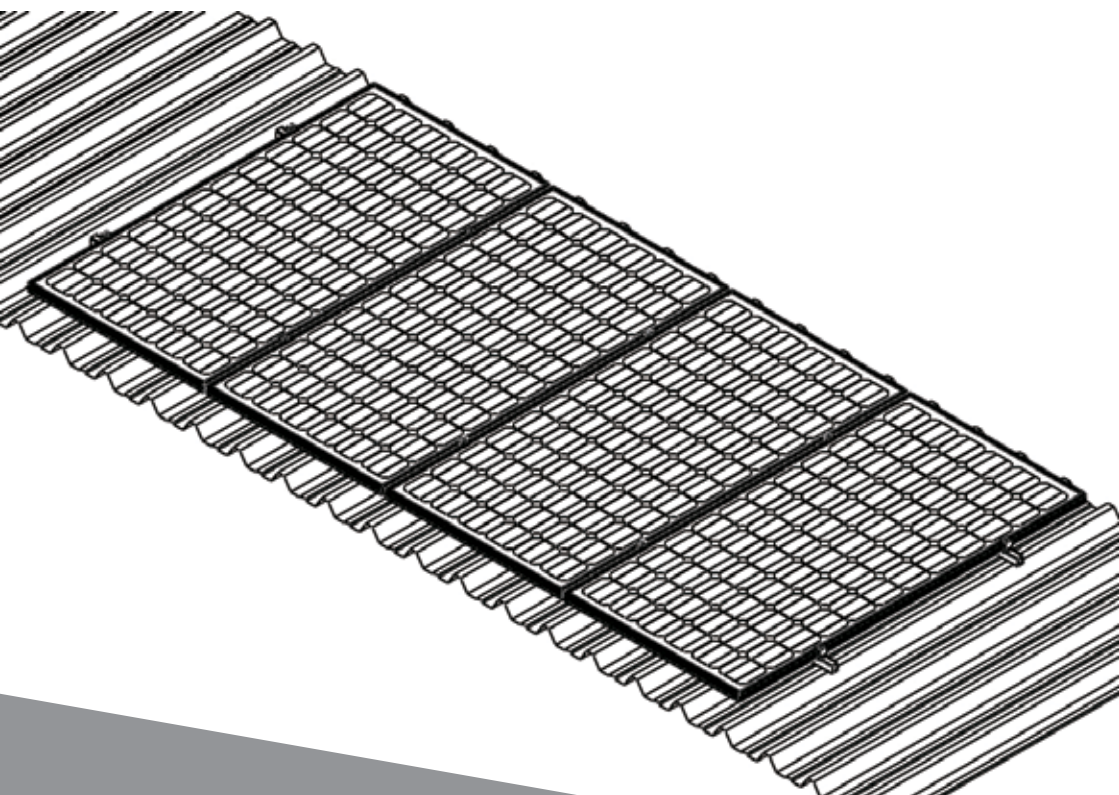


POWERTECH

HS8807

Solar Panel Tin Roof Hook



Instruction Manual

Please read and save all instructions to ensure safe and effective use of this product.



CAUTION

- Installation of the framing shall comply with relevant local government standards, manufacturer's specifications and good building practices. The roof which the panels to be installed shall comply with the relevant local government standards.
- Follow the risk management process prior to commencing work - including identify hazards, assess risks, eliminate or control them.
- Consult with those involved in the work.
- Develop safe work procedures for installing solar panels, using information from the risk management process, which would include reviewing the following information:
 - Provide appropriate information and training to those involved in performing the work.
 - Provide appropriate tools and personal protective equipment (PPE).
 - Ensure that a system is in place to prevent or arrest falls.
 - Ensure there are adequate first aid facilities.
 - Ensure all employees are aware of the emergency procedures.

INSTALLATION TOOLS



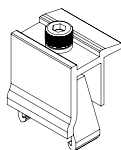
☐ Tape Measure



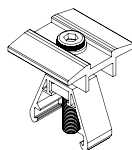
☐ Chalk Line



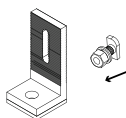
☐ Labor Protection Products



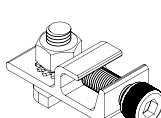
End Clamp



Mid Clamp



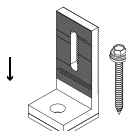
13# Hook



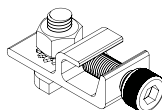
Grounding Lug



☐ Allen Key



13# Hook



Grounding Lug



☐ Open-end Spanner



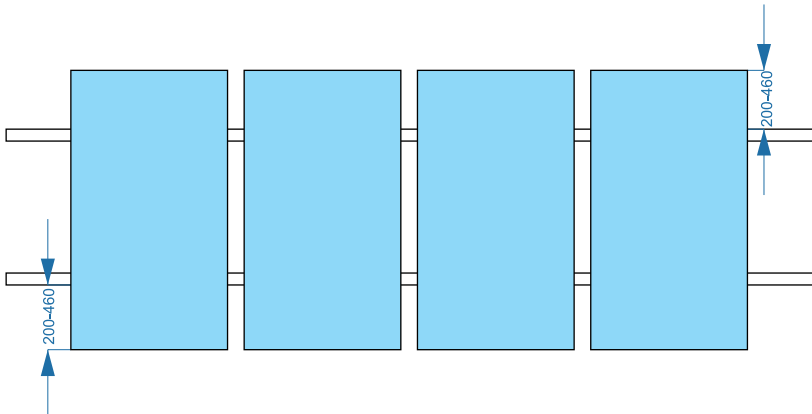
NOTICE

This manual is for a non-integral module or panel, assembly to be mounted over a fire resistant roof covering rated for the application.

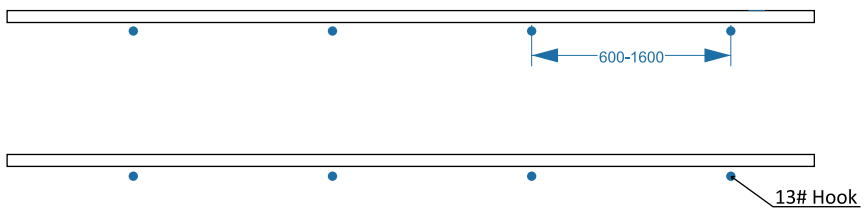
Re-inspect the installation in case of loose components, loose fasteners or any corrosion, the affected components should be replaced immediately.

1. Rail spacing's are as follows:

- When installing in portrait profile, rails should keep 200mm to 460mm from the module edge.



- The distance between Powertech 13# hooks on tile roof could be 600-1600mm.



2. Minimum design load for Powertech Tile Roof Mounting System:

- a Downward Pressures - 10 psf allowable load.
- b Upward Pressure - 5 psf allowable load.
- c Down-Slope Load - 5 psf allowable load.

3. System Fire Class Rating: A

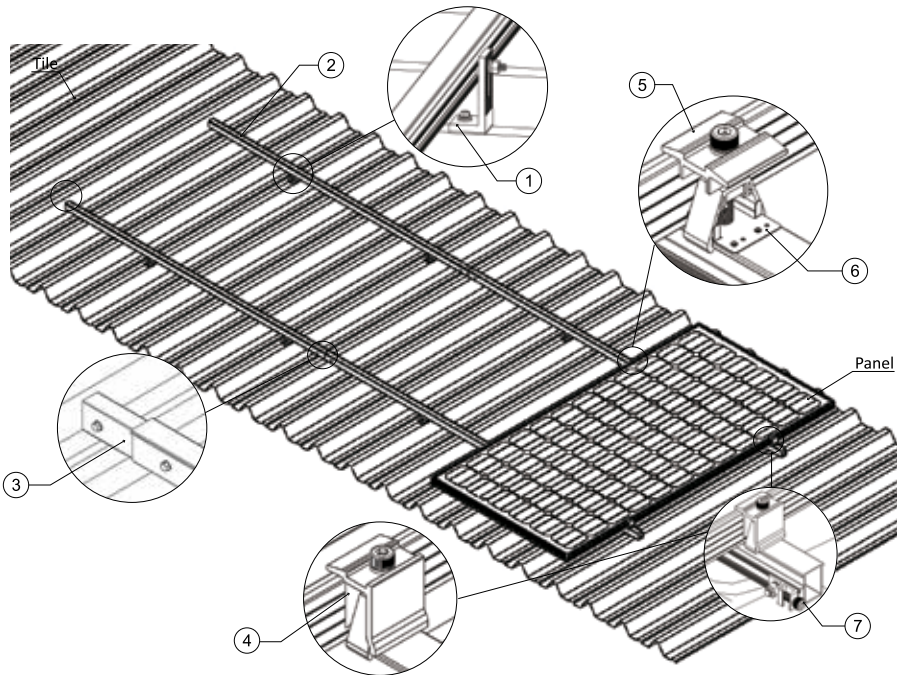
4. Max. Rated Current: 30A

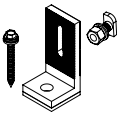
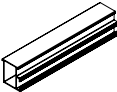
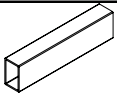
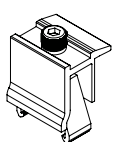
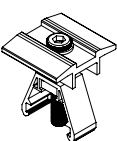
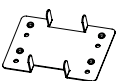
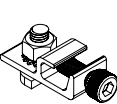
5. This racking system may be used on steep-sloped roofs with slopes greater than or equal to 2 in/ft. (167mm/m or 9.46°), and the installed PV module complying with UL 1703 only when the specific module has been evaluated for grounding or installed in compliance with the included instructions.

6. The CK -TR System is intended to be mounted to a roof using the components listed in the manual.

If any component is added or changed, it may affect the UL listing or the System Fire Class rating.

COMPONENTS

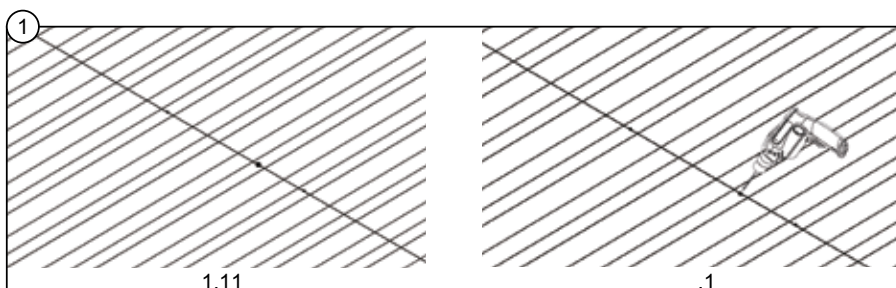


No.	Item No.	Item Name	Picture	Part No.	Part Name	Part Qty
1	CK-FTH-013	013# Hook		1.1	SS304 013# hook	1
				1.2	SS304 T4 bolt M8x28	1
				1.3	SS304 Flange nut M8	1
				1.4	Q235 wooden screw ϕ 6.3*65	1
2	CK-FT-43R	43# Rail		CHIKO Solar AL6005-T5 43-rail length: 4200mm; 3200mm 2100mm; 1200mm		1
3	CK-FT-SKA	Rail Splice Kit		3.1	AL 6005-T5 rail splice	1
				3.2	SUS304 self tapping bolts ϕ 4.2x16	2
4	CK-FTE-40	End Clamp		4.1	AL6005-T5 end clamp for 40mm	1
				4.2	AL6005-T5 058 nut	1
				4.3	SS304 inner hex bolt M8*35	1
				4.4	SS304 spring washer M8	1
				4.5	SS304 Square nut DIN557 M8	1
5	CK-FTM-40	Mid Clamp		5.1	AL6005-T5 mid clamp	1
				5.2	AL6005-T5 058 nut	1
				5.3	SS304 spring washer M8	1
				5.4	SS304 Square nut DIN557 M8	1
				5.5	SS304 inner hex bolt M8*35	1
6	CK-IS-116	Grounding Clip		6.1	SS304 grounding clip	1
7	CK-GTC-R2	Grounding Lug		7.1	Grounding lug - lug 8.0	1
				7.2	SS304 inner hex bolts and nut M8*25	1
				7.3	SS304 T4 bolt M8*25	1
				7.4	SS304 star washer	1
				7.5	SS304 spring washer M8	1

HOOK SPACING TABLE

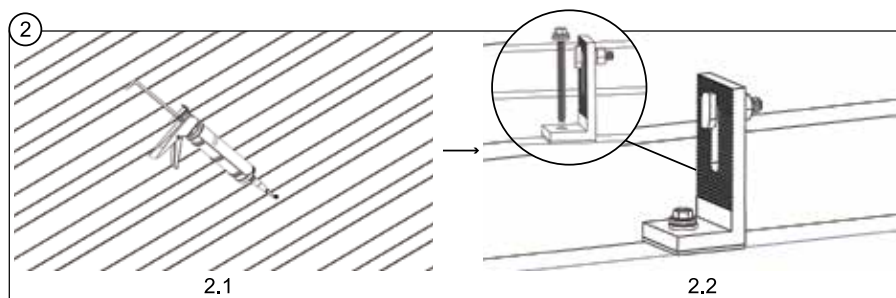
No.	Item No.	Description	Hook Qty	Spacing
1	CK-43R-4200	AL 43# rail -4200mm	3 PCS	1600mm
2	CK-43R-3200	AL 43# rail -3200mm	3 PCS	1400mm
3	CK-43R-2100	AL 43# rail -2100mm	2 PCS	1600mm
4	CK-43R-1200	AL 43# rail -1200mm	2 PCS	1000mm

INSTALLATION

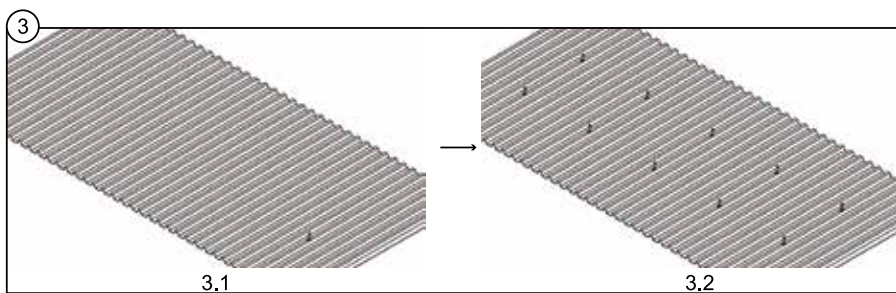


Determine where the roofs mounts will be positioned based on position of existing roof screws, and mark it with a chalk line. Determined a position where the L foot will be attached on a unused crest. Drill a single 6mm pilot hole.

Installation of Powertech 13# Hook

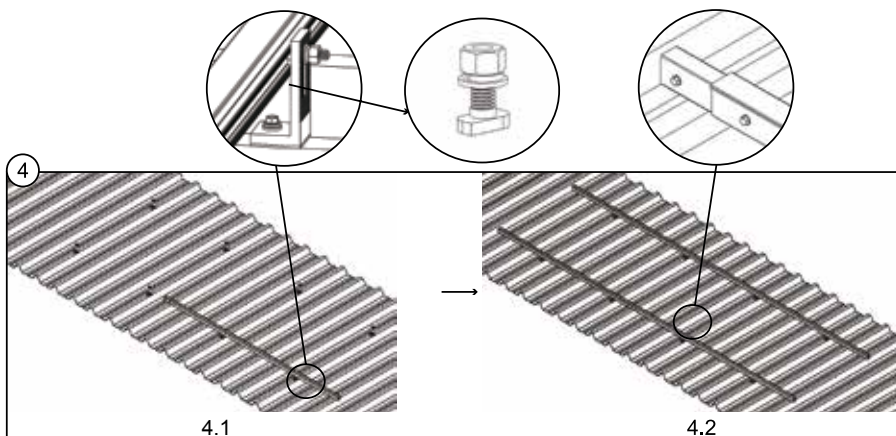


Backfill the pilot hole with sealant then fix the L-foot in place. Fix the L-foot in line. M8 Torque: 15~20N·m



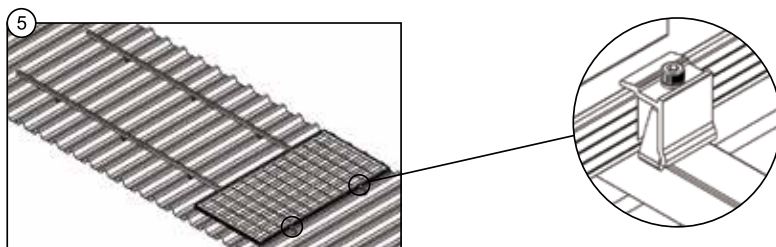
Install all the 13# hooks according to step 2.

Installation of Rail

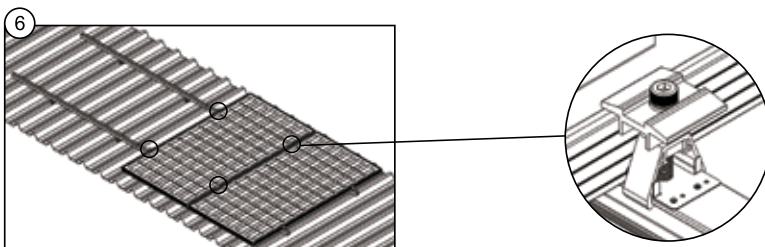


Connect the rail to the 13# hooks with the T-bolt M8*28 and nut. Fasten to secure. Use the rail splice kit to connect the two rails with the two $\phi 4.2 \times 16$ self tapping bolts. M8 Torque: 15~20N·m

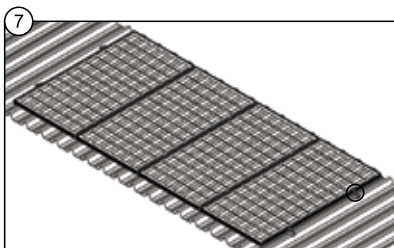
Installation of End and Mid Clamps



Put the first PV module on the two parallel rails, fasten the end clamp with inner hex bolts M8 to secure one side of the panel then slot two mid clamp on the rail. M8 Torque: 15~20N·m

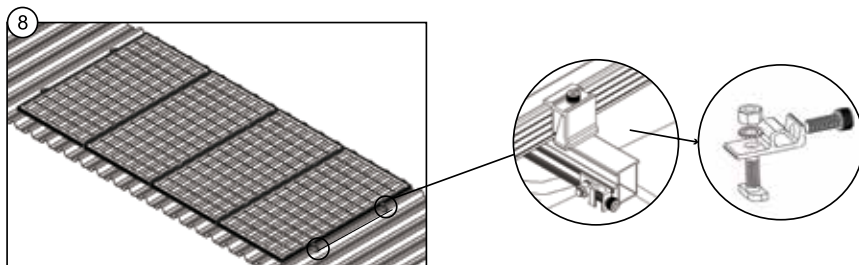


Put the second panel on the rail, fasten the mid clamps with inner hex bolts M8 at all locations where two panel meet. M8 Torque: 15~20N·m



Install all the panels and fasten end clamps at the end of each array. M8 Torque: 15~20N·m

Installation of Grounding lug



Install a grounding lug onto each rail line edge with an inner hex bolt M8*25 and a stainless steel nut, then connect 8.4mm² (greater than or equal to 8AWG) copper wire through all the grounding lugs (fixed by M8*20 inner hex bolt), finally connect a copper wire to the ground. The grounding lug has grounding function when fastened tight to the rail and copper grounding wire. M8 Torque: 15~20N·m

WARRANTY INFORMATION

Our product is guaranteed to be free from manufacturing defects for a period of 12 Months.

If your product becomes defective during this period, Electus Distribution will repair, replace, or refund where a product is faulty; or not fit for intended purpose.

This warranty will not cover modified product; misuse or abuse of the product contrary to user instructions or packaging label; change of mind and normal wear and tear.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

To claim warranty, please contact the place of purchase. You will need to show receipt or other proof of purchase. Additional information may be required to process your claim.

Any expenses relating to the return of your product to the store will normally have to be paid by you.

The benefits to the customer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods or services to which this warranty relates.

This warranty is provided by:

Electus Distribution

Address 46 Eastern Creek Drive, Eastern Creek NSW 2766

Ph. 1300 738 555