

Ultimate collocation A Frame KIT Installation instructions

(The utility model can be installed on the Tin Roof or can be installed on the concrete column)



GB | Use

Mounting system for installing framed PV modules with heigths between 30 and 50 mm on pitched roofs with the following characteristics:

- Roof pitch 5° 60° (solar fasteners), 20°-60° (Roof hooks)
- Single and double roman, plain tile, natural slate, and flat tiles with wooden substructures.
- PV-panel landscape and portrait oriented

Static calculation must exist and be considered according to local regulations.

Installation guidelines

Ensure that the roof construction is suitable for the introduction of forces at the fixing points and their subsequent transmission. In order to compensate thermal expansion, included a break every 12 meters when planning the PV-system. For module positioning/fastening points please refer to manufacturers recommendations. Please follow your local timber construction standard. Please do not use installed roof connections as ladder.If installation is located within 10km from the coast, we advice not to use zinc coated material. For further information please contact your sales representative or the technical depart-ment at Hopergy.



The structural stability of the PVsystem must be verified before installation. The building must be able to support the additional weight safely.

Installation notes

Please read these installation instructions carefully before starting the installation and familiarise yourself with the system components. During the installation and in particular whilst working on the roof, ensure to work according to the relevant health and safety guidelines, safety guidelines and please follow the current rules and regulations for your corresponding region.

The individual installation instructions are merely recommendations in accordance with the current state of technology and are based on previous experiences of how Hopergy systems can be installed.

If any spe-cial characteristics of the roof or object need to be taken into account, we recommend you to consult specialists such as roofers or structural engineers where necessary. Please check that the applied manual which is up to date. All manuals are available in the download area at www.hopergy.com

Testing/certification:

- TÜV
- MCS012 (IK0197)
- ISO 9001

Applicable Documents

"General installation, maintenance and assembly instructions"

"Safety Instructions for Installation Instructions"

"Warranty and Disclaimer."

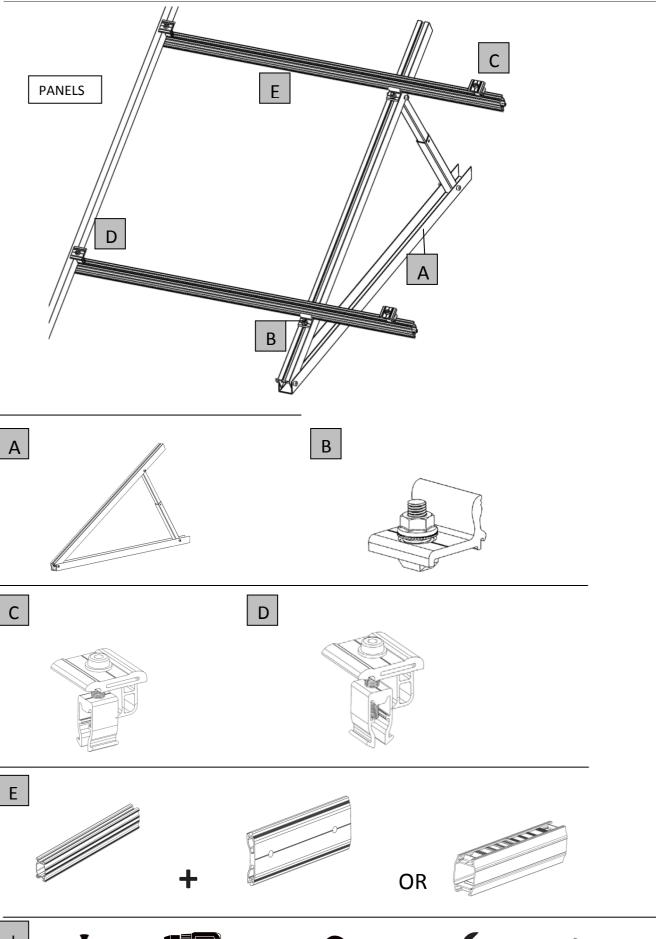
These documents are available at www.hopergy.com

Warranty:

The warranty only applies if an original and complete Hopergy system is used, with a layout designed by Hopergy.

Hopergy is not accountable for the roofs capability to maintain the introduced forces. Please check the roofs compatibility with a static engineer.

Ultimate collocation A Frame KIT System





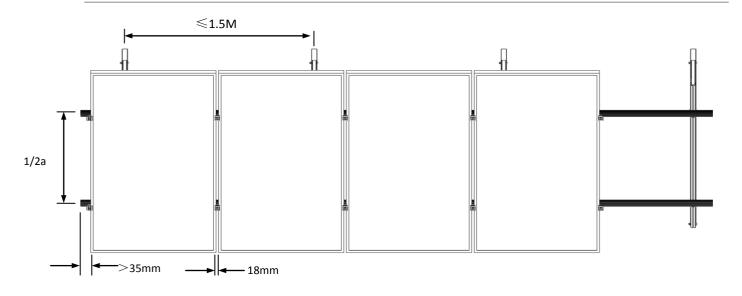


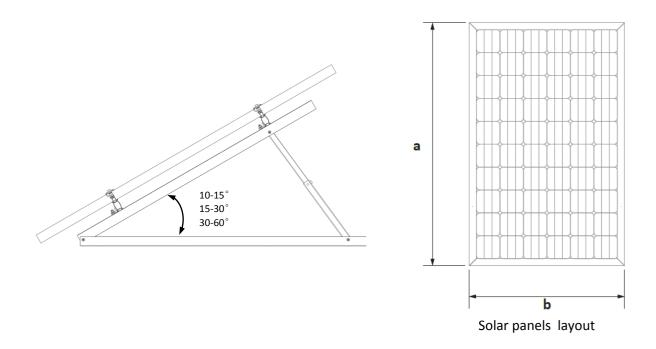




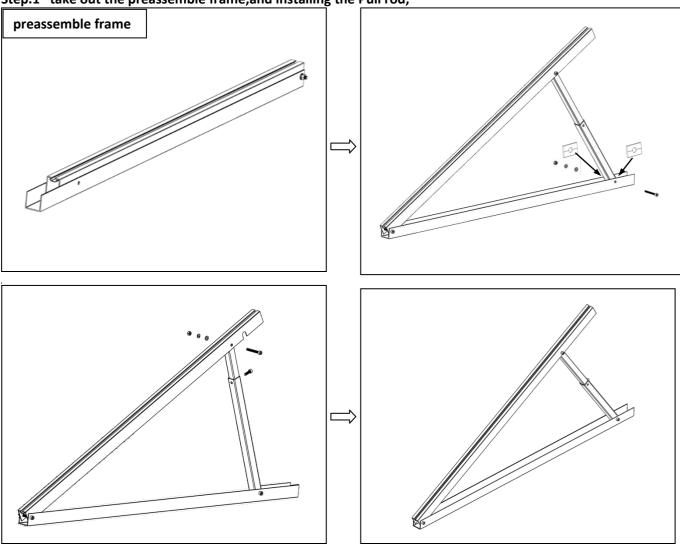


SOLAR PANELS LAYOUT

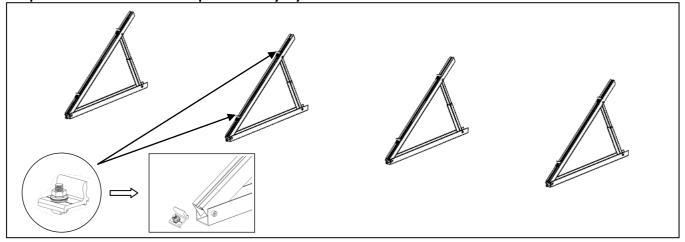




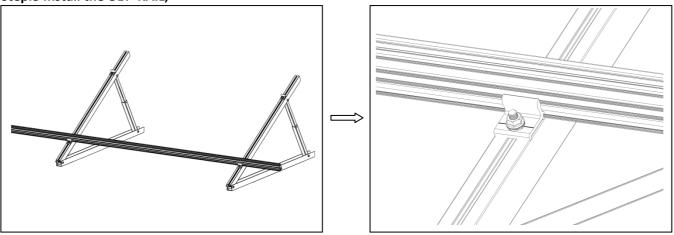


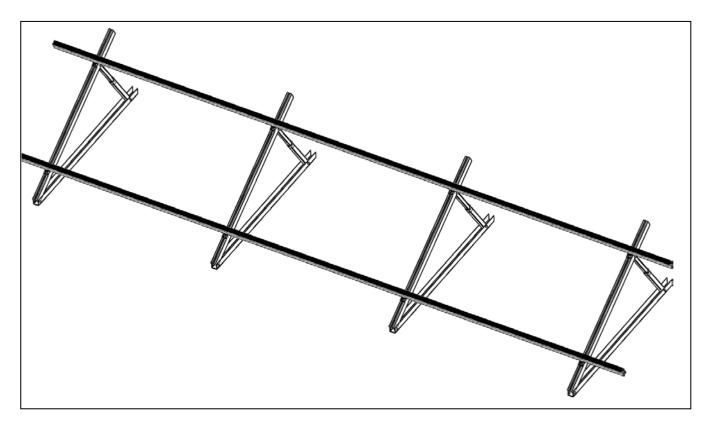


Step.2 Install the ULT rail clamps then Array layout the A Frame kit



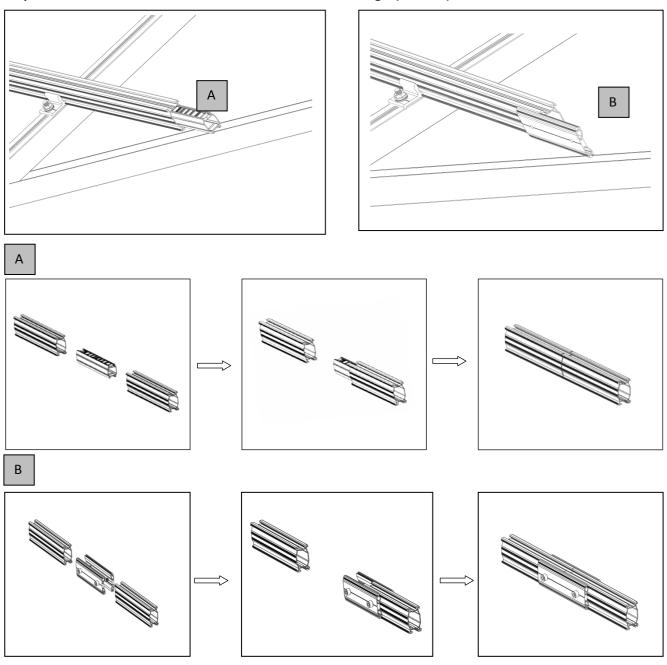
Step.3 Install the ULT RAIL;



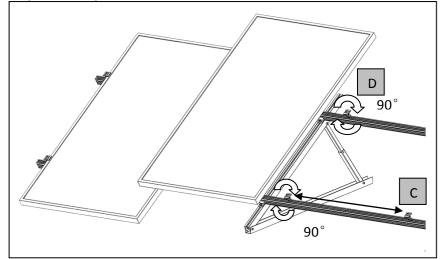


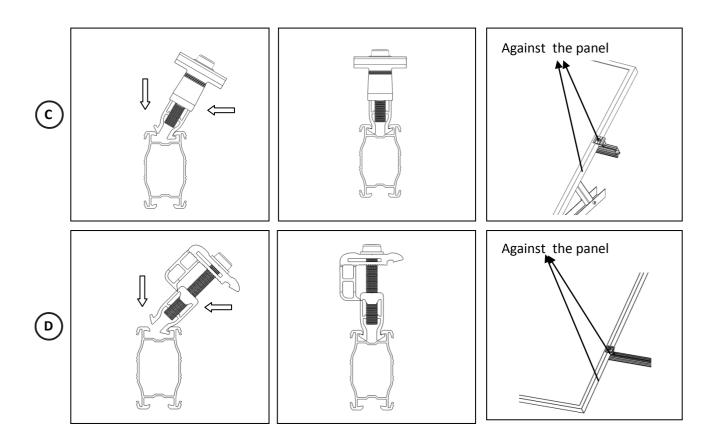
PS: The utility model can be installed on the Tin Roof or can be installed on the concrete column!!

Step.4 There are two connectors to increase the ult rail's length(A and B).



STEP.5 install ultimate panel clamps;

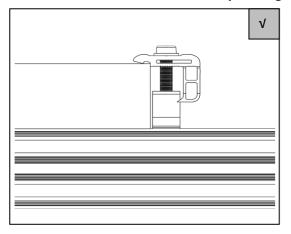


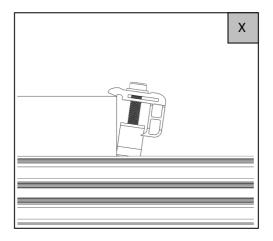


Attention: 1.The panel clampis close against the solar panel.

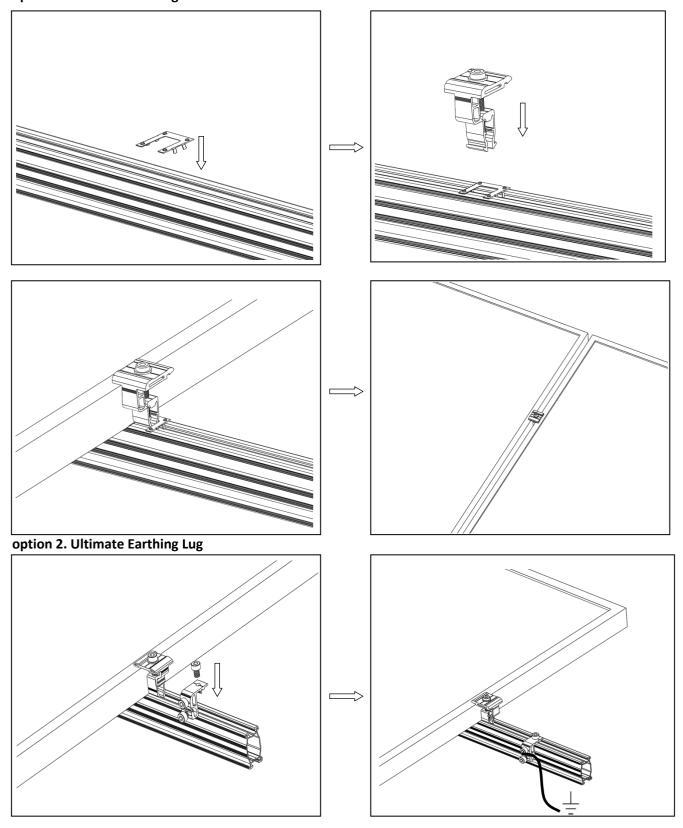
2. Tighten the bolt slowly, until the clamp in holding position.

3. Then use 6-8N.M torque to tighten the bolt.

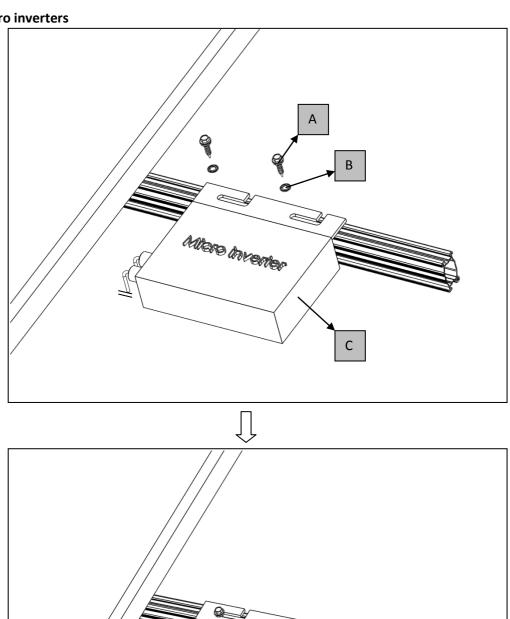




option 1. Ultimate Earthing Plate



option 3. Micro inverters



- A ST6.3*25 Timber screws
- **B** M8 Earth washers
- © Micro inverter

Components

| Part name | ULTIMATE Rails | Inter Rail Connector | Outer Rail Connector |
|-----------|-------------------------|----------------------|-----------------------|
| Part No. | HOP-F26-0000 | ULT-ISK | ULT-SSK |
| Figure | | | |
| Part name | end clamp | inner clamp | Ultimate Earthing Lug |
| Part No. | ULT-UCS | ULT-UCS | ULT-ELG |
| Figure | | | |
| Part name | Ultimate Earthing Plate | A Frame kit | |
| Part No. | ULT-EPL | HOP-AFK | |
| Figure | | | |

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