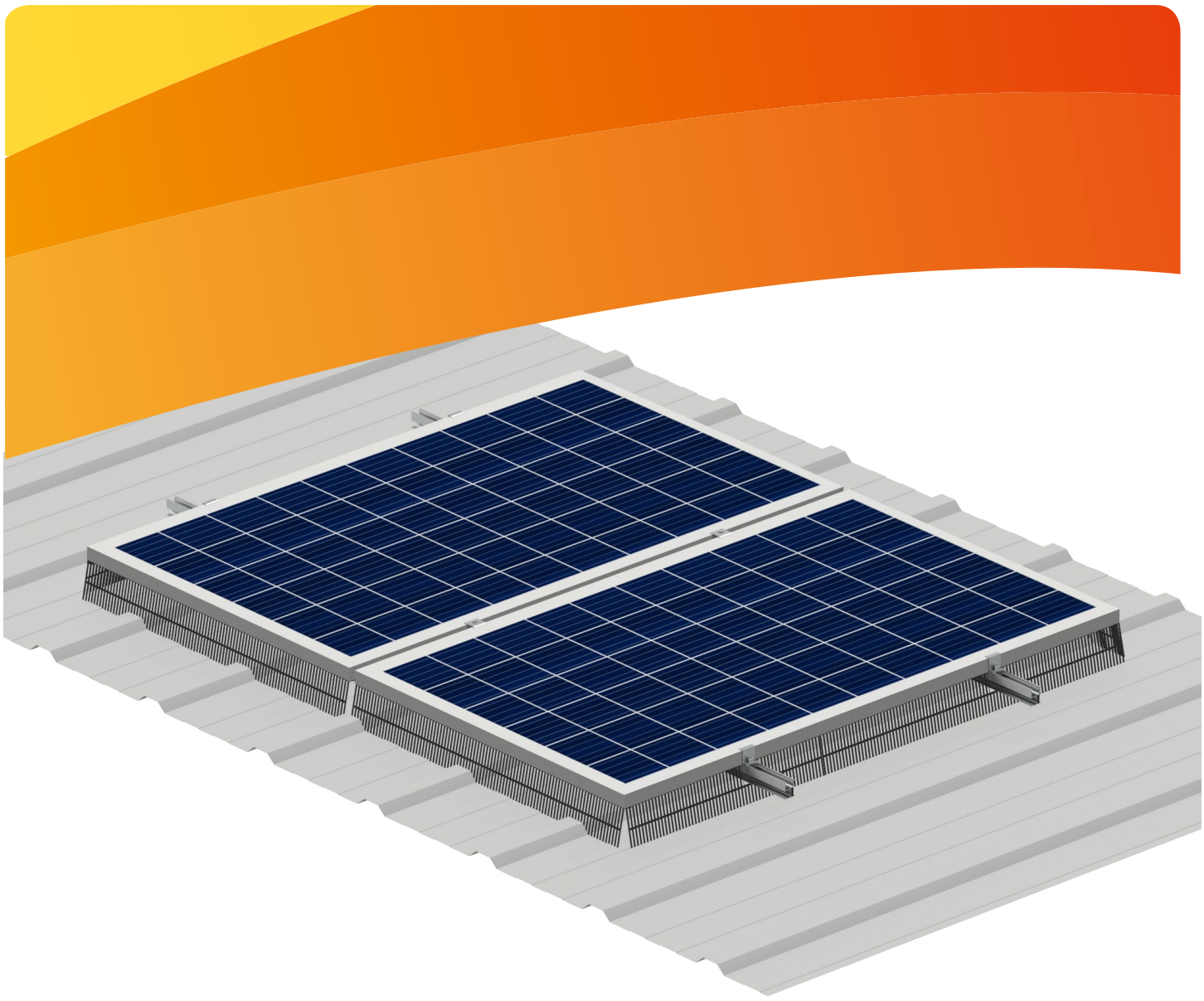
PV-ezRack®

By Clenergy

DFendr Solar Skirt

Installation Guide V1.0



Introduction

PV-ezRack® By Clenergy

1. Introduction

PV-ezRack® DFendr - Solar Skirt is a universal mounting accessory to keep birds and wind-blown debris and leaves away from the solar PV system on roofs.

Please review this manual thoroughly before installing Solar Skirt. This manual provides:

1) Simple introduction of the installation relating to Solar Skirt;

2) Planning and installation instructions for Solar Skirt.

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The Solar Skirt parts, when installed in accordance with this guide. During installation, and especially when working on the roof, please comply with the appropriate Occupational Health and Safety regulations. Please also pay attention to any other relevant State or Federal regulations. Please check that you are using the latest version of the Installation Manual, which you can do by contacting Clenergy via www.clenergy.com or contacting your local distributor.

The installer is solely responsible for:

- Complying with all applicable local or national building codes, including any updates that may supersede this manual;
- Ensuring that PV-ezRack® and other products are appropriate for the particular installation and the installation environment;
- Using only PV-ezRack® parts and installer- supplied parts as specified by PV-ezRack® project plan (substitution of parts may void the warranty and invalidate the letter of certification);
- Recycling: Recycle according to the local relative statute;
- Removal: Reverse installation process.

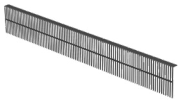
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2. Tools and Components

2.1 Tools

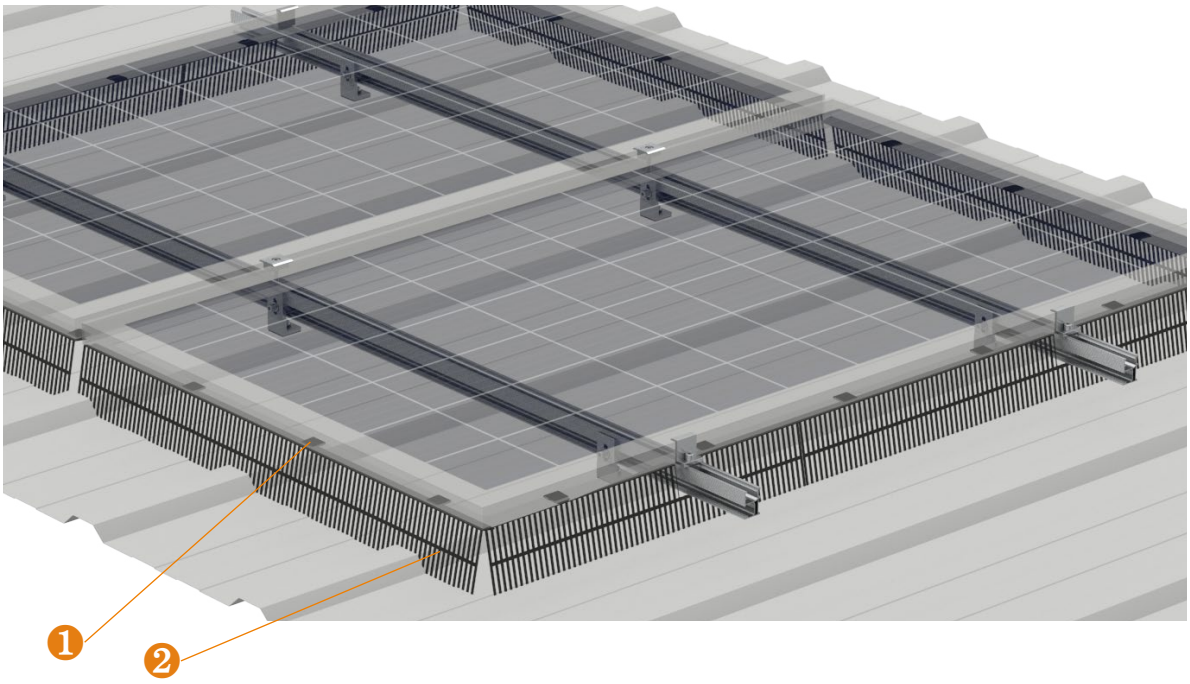
Tools		
		
Plier	Tape	Marker Pen

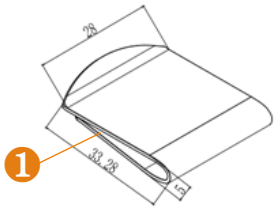
2.2 Components

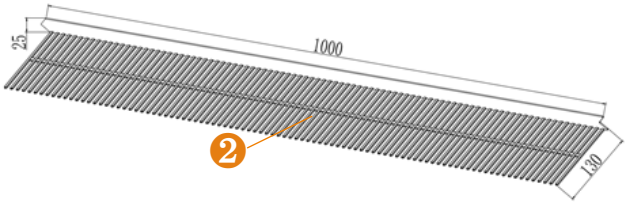
Components	
	
EZ-SC-PV PV-ezRack® DFendr - Solar Skirt Clip for PV Panels	EZ-SS-PV PV-ezRack® DFendr - Solar Skirt for PV Panels

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3. System Overview







1 Clip

2 Solar Skirt

Note: Considering the height (130 mm) and flexibility of Solar Skirt, it is recommended to solar skirt only for the gap 100 to 130 mm between underside of the PV panel and roof.

Most of PV-ezRack interfaces can provide required gap.

Here are the interfaces list below:
Tile Roof Interfaces: ER-I-01, ER-I-01/EZC/ECO, ER-I-01/CS, ER-I-51, ER-I-23, ER-I-26
Penetrative Tin Roof Interfaces: ER-I-05/EZC/ECO, ER-I-25
Non-penetrative Tin Roof Interfaces: Klip-lok bracket with Cross Connection Clamp (EZ-AD-C43)

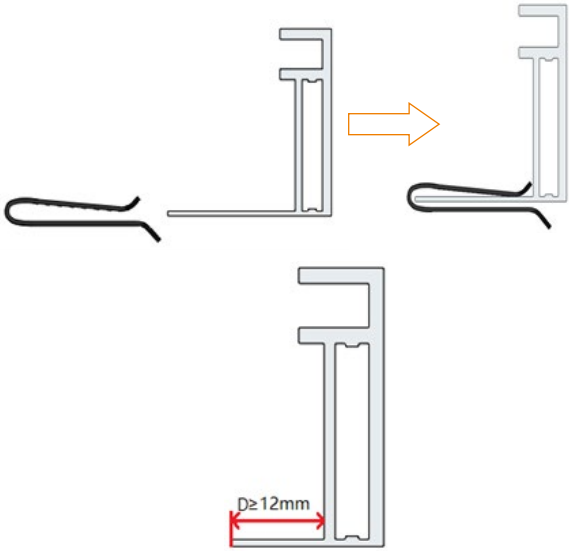
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Installation Instruction

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4. Installation Instructions
4.1 Clip Installation

Attach spring clips to the underside of the PV panel frame with the small lip facing up.



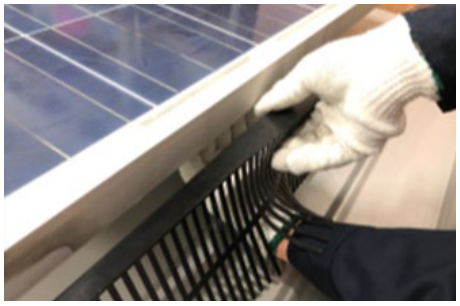
Note: minimum frame width (D) is 12 mm

For installations up to 10 m building height and at terrain category not less than 2.5, please refer the table on the right for number of clips per 1 m long Solar Skirt.

	Number of Clip	
	≥ 1.2 mm Frame Thickness	≥ 1.85 mm Frame Thickness
Wind Region A	4	3
Wind Region B	6	5
Wind Region C	10	6
Wind Region D	14	9

4.2 Solar Skirt Installation

4.2.1 Bend the Solar Skirt strips so that it can give room for a hand to reach and hold clip.





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4.2.2 Insert the upper frame of the Solar Skirt into the clip mounted on the PV panel frame and push the clip against Solar Skirt till it is fully in place.

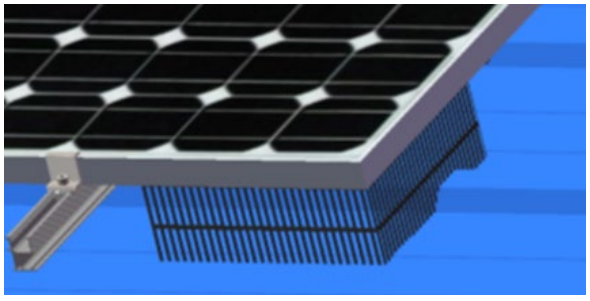


Note: if clip is pushed off from panel frame, it is recommended to press it again with the plier to maintain a good strength.



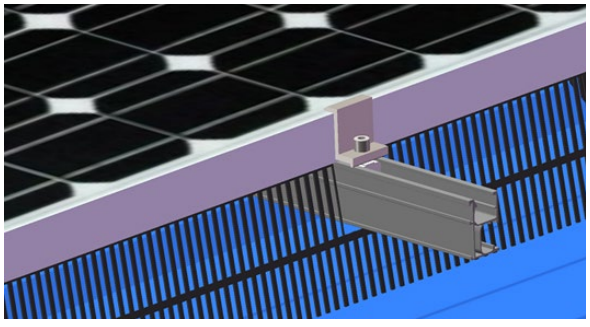
4.2.3 At the PV solar panel corner, cut a “V” shaped 45 degree notch and bend into 90 degree shape, install the Solar Skirt following steps 4.2.1 and 4.2.2.





4.2.4 At the place of having ECO rail obstruction, cut about 35 mm long opening of the Solar Skirt to fit it in.





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Innovating renewable energy

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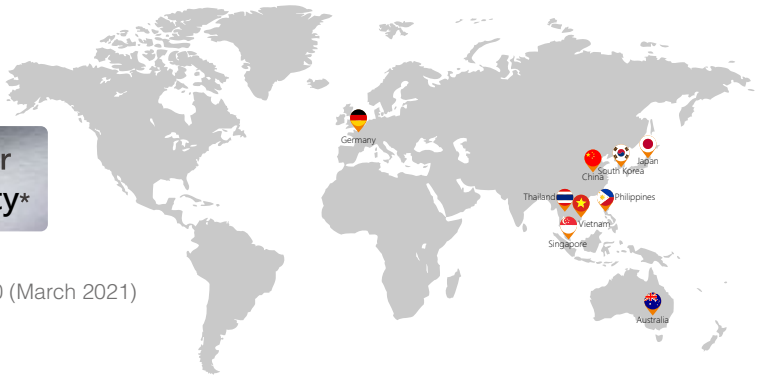
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10 Year Warranty*