

# Installation ground mount -Instructions manual - PowAR Snap® S Fastening & Grounding clip for Framed PV Modules

Ref: 233147

## General conditions of use

- This notice takes care of the installation of Photovoltaic modules on strut rails, on ground mount in landscape or portrait installations.
- PowAR Snap® S is for single use. In case of solar panel change, always use new PowAR snap®.
- PV module frame specifications : see Tab1 and Fig1.

Tab1	mm	inches
A	1.5 to 2.2	0.060 to 0.086
B	min. 16	min. 0.630
C	min. 30	min. 1.182

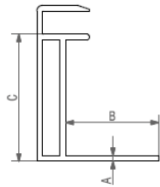


Fig1 : PV frame module specifications

- Rail specifications : steel strut rails with dimensions according to Tab2 and Fig2.

Tab2	mm	inches
D	min. 34	min. 1 11/32
E	min. 39.5	min. 1 9/16
F	7.1 (+/-0.6)	9/32 (+/-0.023)
G	22.2 (+/-1.2)	7/8 (+/-0.047)

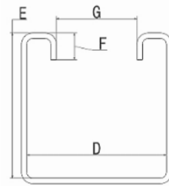


Fig2 : rail specifications

## Material



PowAR Snap® S  
Ref 233147



PowAR Snap® S - stopper  
Ref 232579  
for landscape configuration

## Assembly



2 people

Protective equipment  
recommended : safety gloves

## Tools recommended

1 assembly jig

## More info

Contact us on [www.araymond-energies.com](http://www.araymond-energies.com)

## Installation

### 1 PowAR Snap® S positioning (Fig. 3)

- 1-a Measure "X" = distance between rails supporting module
- 1-b Calculate "Y" = (Length of long side module - X) / 2 (Fig. 3)
- 1-c Make sure "Y" is compliant with module manufacturer recommendations
- 1-d Prepare a jig of length "Y" (Fig. 4)

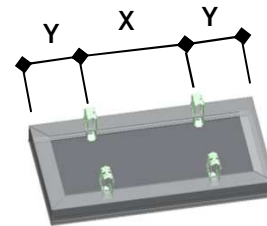


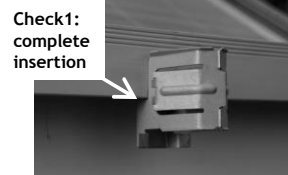
Fig. 3



Fig. 4

### 2 Attach PowAR Snap® S clip to PV modules

- 2-a Place PV module in order to have access to its back side (Fig. 4)
  - 2-b Insert manually the 4 PowAR Snap® S clip (ref 233147) onto the frame lip on the long side of the module at a distance Y from the corner using the jig (Fig. 4).
  - 2-c Make sure the clip is fully engaged onto the lip (Fig. 5)
- Module is now ready to be mounted on its supporting rails



Check1:  
complete  
insertion

Fig. 5



Fig. 6

### 3 Mounting the PV module onto the rails

- 3-a Place PV module with PowAR Snap® S clips facing down above supporting rails (Fig. 6) until the four clips are sitting in the middle of the opening of the rails
- 3-b Slide the PV module along the rails up to its final position
- 3-c Press downward PV module frame: "Click" signals job is properly done (Fig. 7)
- 3-d Check visually that module is fully sitting onto the rails (Fig. 7) and module is flush with the adjacent ones



click

Check2:  
complete  
insertion

Fig. 7



Fig. 8

### 4 In case of Landscape mounting

- 4-a Position the stopper (ref 232579) at the desired location onto the rail and fix it with its two self-drilling screws (Fig. 8)

## Grounding details

- Bonding path from the module frame to its supporting structure is ensured by the part itself as it maintains a stable electrical contact between the aluminum module frame and the steel rail at several contact points (see Fig. 9).

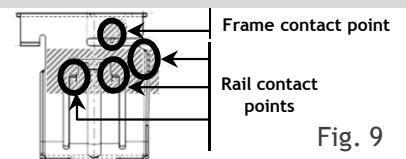


Fig. 9

## Dismounting

- Please refer to disassembly instructions of PowAR Snap® S



Disassembly with no  
back access  
Using the slider - ref 237942



Disassembly per back access  
Using the plier - ref 235216