

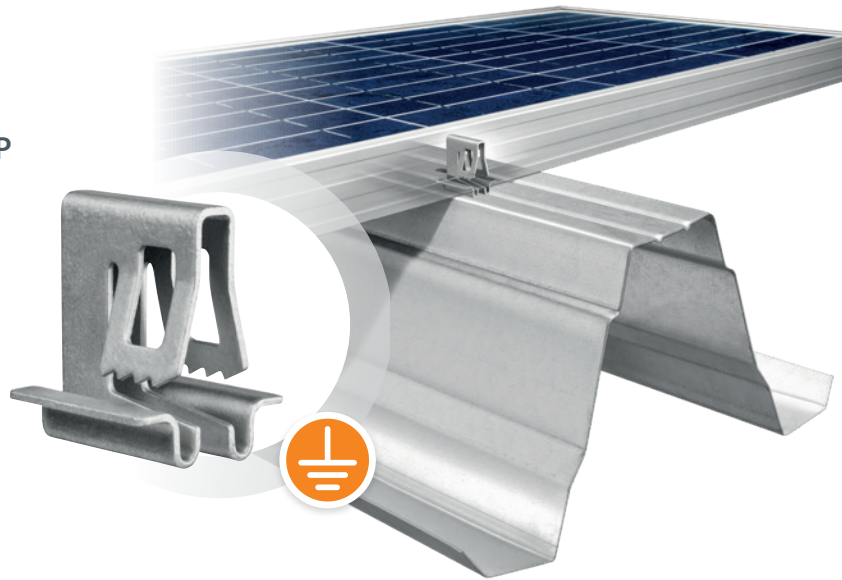
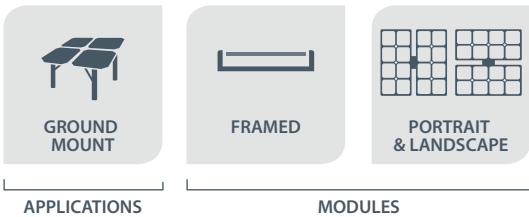
# FASTENING & GROUNDING CLIP FOR FRAMED MODULES



Screwless and tool-free clipped fastening solutions provide fast and simple assembly, enabling customers to reduce the overall cost of renewable energies.

## PowAR Slot

COMBINED **FASTENING & GROUNDING** CLIP  
FOR FRAMED PV MODULE



## Benefits

### QUICK

- Fastening and grounding in a single operation.
- 1 module installed in less than 30 seconds<sup>(1)</sup>.

### COST SAVING

- Quick and tool free installation
- Lower maintenance costs: screwless, no periodic torque control required
- Hot spot risk reduction for PV modules thanks to elastic mechanical clamping<sup>(2)</sup>



### EASY TO USE

- Easy panel alignment, specifically designed for uneven terrain
- Installation friendly: clips can be inserted from underneath the array
- Easy to dismount from the module's backside

### APPROVALS

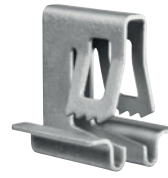
- Clip tested by ARaymond Energies test center
- Qualified by major module manufacturers<sup>(3)</sup>
- Tested by SERMA TECHNOLOGIES according to IEC 61215 - 2016

(1) According to field tests results available upon request.

(2) Mechanical shocks and daily thermal cycles often induce micro-cracks within cells, leading to hot spots and power output degradation.

(3) Report available upon request.

# PowAR Slot: FASTENING & GROUNDING CLIP FOR FRAMED MODULES OR GROUND MOUNT



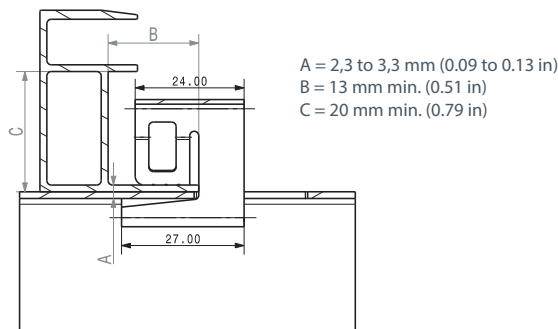
## TECHNICAL SPECIFICATIONS

		PowAR Slot	
PRODUCT DETAILS	ARTICLE N°	247767	
	MATERIAL	Steel 1.1231- DIN EN 10132:2000 (SAE 1070- ASTM AISI)	
	SURFACE TREATMENT	Zn Al Flake Coating	
	DIMENSIONS	in mm	27 x 22 x 28
		in inches	1.063 x 0.866 x 1.102
WEIGHT IN G		13	
PERFORMANCES	MECHANICAL RESISTANCE	Load +5400/-2400 Pa compliant with IEC 61215-1-2.16:2016	
	CORROSION RESISTANCE	No red rust after 720 hours salt spray acc. EN 60068-2-11:1999	
	GROUNDING CONTINUITY	Compliant with CEI 61439-1 (2011) § 10.5.2 and salt mist test, acc. to NF EN 60068-2-11 (1999) certified by Veritas. Internal tested after 1 000 hours	
ENVIRONMENT	PV MODULE SPECIFICATIONS	For W, V and B see module specification	
	RAIL SPECIFICATIONS	For L, M and N see the below rail interface design	

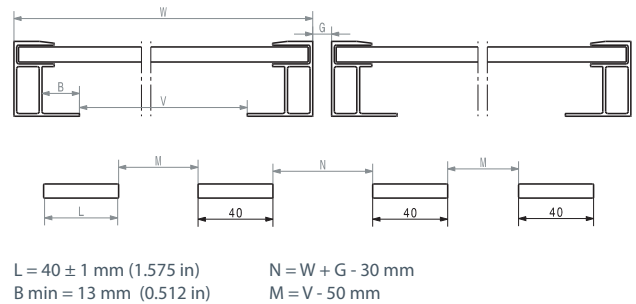
Product information disclosed in this "datasheet" can be modified without any previous notice.

## EXAMPLES OF RAIL SPECIFICATIONS

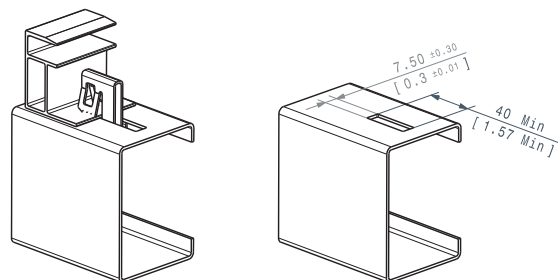
### Cross section view & PV module specifications



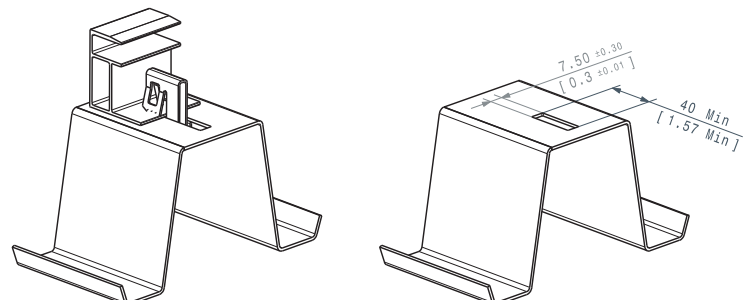
### Rail interface design rules for adjustment capability of $\pm 15 \text{ mm}$



### C-Shape configuration



### Hat-Shape configuration



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



ARaymond Energies SAS (RCS Grenoble 798 705 604) - ZI Technisud 123 rue Hilaire de Chardonnet - 38100 Grenoble - FRANCE has designed this datasheet.

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