

# FASTENING & GROUNDING<sup>(1)</sup> CLIP

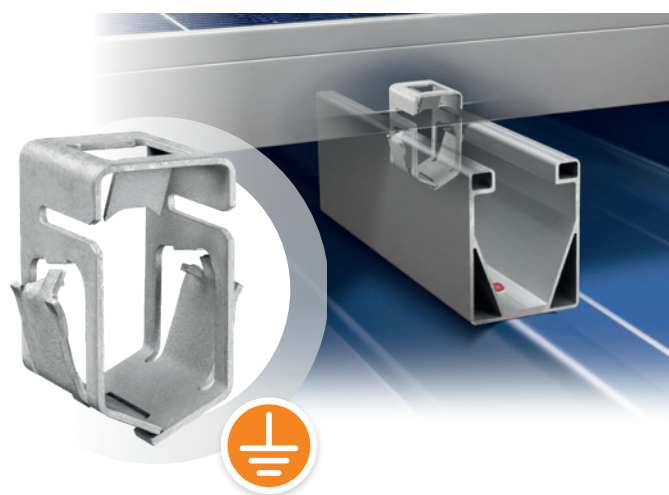
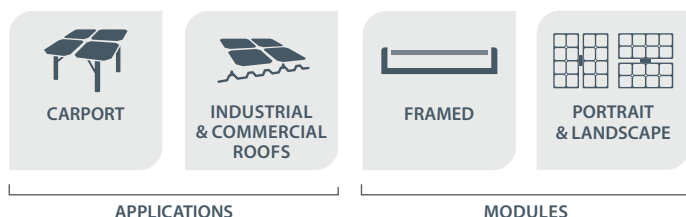
## FOR FRAMED MODULES



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

### PowAR™ Snap S+

COMBINED PV MODULE FASTENING & GROUNDING<sup>(1)</sup>



## Benefits

### QUICK

- Fastening and grounding in a single operation
- 1 module installed in less than 30 seconds<sup>(2)</sup>

### EASY TO USE

- Tool-free set up
- Minimal training required
- Intuitive: the "click" signals that the job is properly done
- Installation friendly: no need to climb on structure, panels can be inserted from underneath the array
- Can be dismantle independantly

### COST SAVING

- Lower overall costs of the PV installation
- No maintenance costs: screw-less, no periodic torque control required
- Hot spot risk reduction for PV modules thanks to elastic mechanical clamping<sup>(3)</sup>
- Anti-theft design

### APPROVALS

- High protection against corrosion and lightning
- Grounding continuity of the circuit maintained when a module is dismantled for maintenance
- Tested by accredited laboratories & qualified by major manufacturers



(1) Bonding PV panel frame to connected rail, requires rail bonded to grounding electrode system.

(2) Report available upon request.

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

## TECHNICAL SPECIFICATIONS



		CLIP FOR PV MODULE FASTENING	REMOVAL TOOLS		
		PowAR™ Snap S+	Front access		Back access
PRODUCT DETAILS	ARTICLE N°	252387	505042	257391	235216
	MATERIAL	Steel 1.1231 - DIN EN 10132:2000			
	SURFACE TREATMENT	Combines an inorganic zinc-rich with basecoat with aluminium-rich organic topcoat	—		—
	DIMENSIONS IN MM	37 x 30 x 25			
	DIMENSIONS IN INCH	1.46 x 1.19 x 0.99			
	WEIGHT IN G	16.7	200	33.5	500
PERFORMANCES	MECHANICAL RESISTANCE	Tested load +5400/-2400 Pa compliant with IEC 61215-10.16	—		—
	CORROSION RESISTANCE	No red rust after 720 hours salt spray acc. EN 60068-2-11:1999	—		—
	GROUNDING CONTINUITY	With steel and non-anodized aluminum rails IEC 60439-1: 2004 8.2.4.1 certified by Veritas on steel rails.			
ENVIRONMENT	PV MODULE SPECIFICATIONS	Module with frame thickness A between 1.5 and 2.2 mm, minimum lip length B of 16 mm and minimum frame height C of 10 mm	—		—
	RAIL SPECIFICATIONS	Standard steel and aluminum rails. See technical drawing with minimum required dimension.	—	Aluminium rail only. Please contact us	—

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

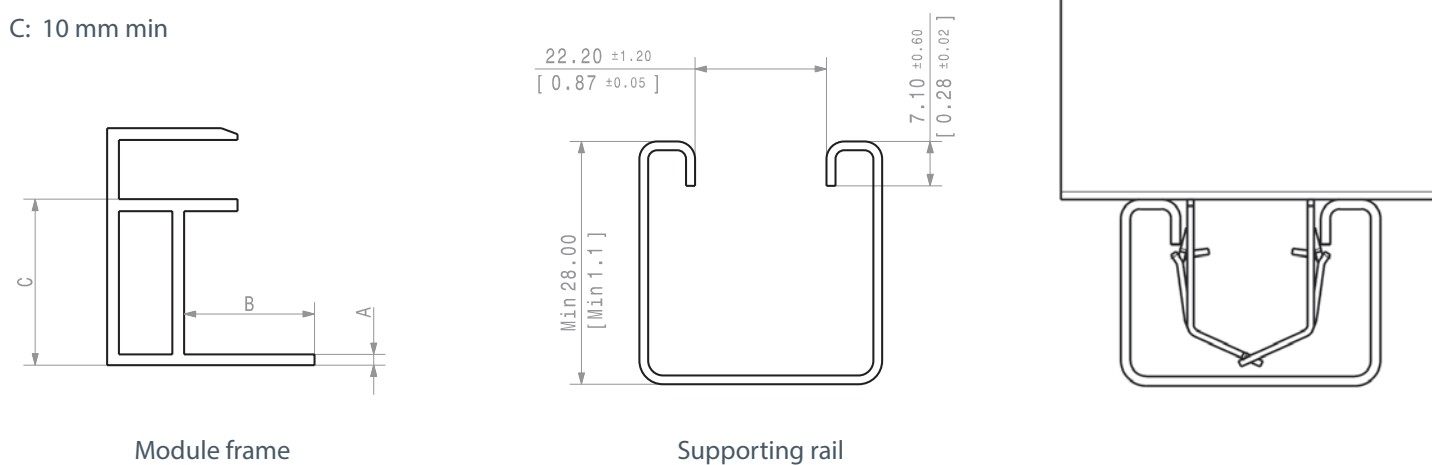
For landscape configuration, we recommend to add a bottom stopper. Please refer to our instruction manual.

## PV MODULE FRAME AND RAIL SPECIFICATIONS

A: 1.5 to 2.2 mm

B: 16 mm min

C: 10 mm min



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



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