

FASTENING & GROUNDING⁽¹⁾ CLIP

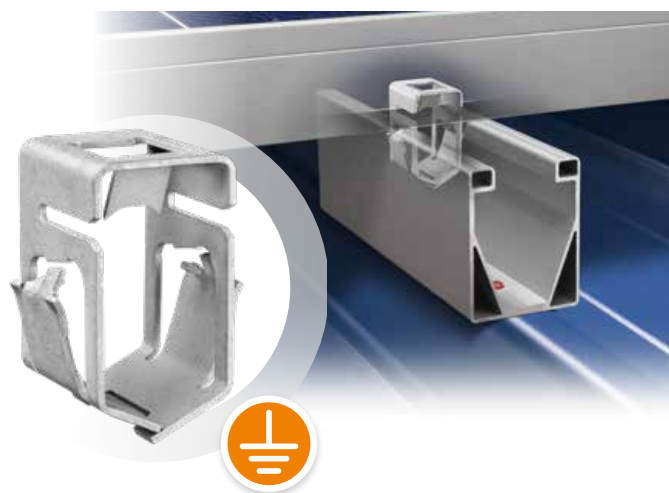
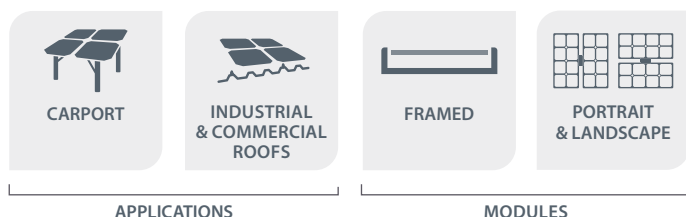
FOR FRAMED MODULES



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⁽¹⁾



Benefits

QUICK

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

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⁽³⁾
- Anti-theft design

APPROVALS

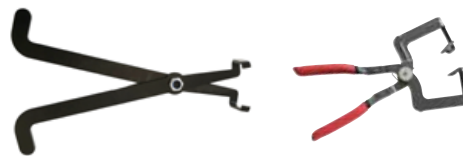
- High protection against corrosion and lightning
- Grounding continuity of the circuit maintained when a module is dismantled for maintenance
- Tested by accredited laboratories & qualified by major manufacturers



(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°	252387000	254279000	235216001
	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	350 x 80 x 40	280 x 130 x 40
	DIMENSIONS IN INCH	1.46 x 1.19 x 0.99		
	WEIGHT IN G	16.7	200	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	IEC 60439-1: 2004 8.2.4.1 certified by Veritas on steel rails. Internal tested after 1 000 hours		
ENVIRONMENT	PV MODULE SPECIFICATIONS	Module with frame thickness A between 1.5 and 2.2 mm, minimum lip length B of 16 mm and minium frame height C of 10 mm		
	RAIL SPECIFICATIONS	Standard steel and not anodized aluminum rails (see technical drawing) minimum required dimension.		

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

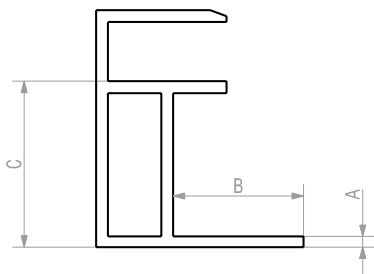
For landscape configuration, we recommend to add a bottom stopper. Please refer to our instruction manual.

PV MODULE FRAME AND RAIL SPECIFICATIONS

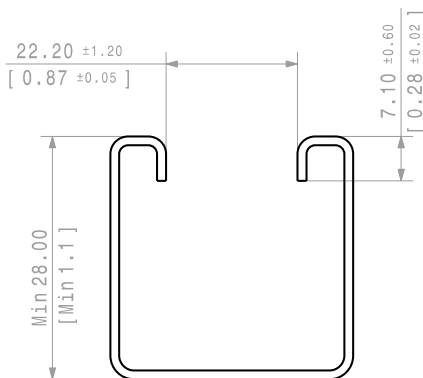
A: 1.5 to 2.2 mm

B: 16 mm min

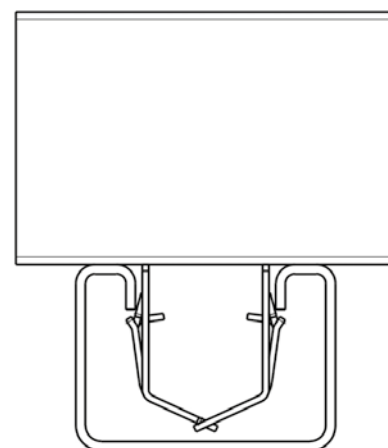
C: 10 mm min



Module frame



Supporting rail



www.araymond-energies.com



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