FASTENING & GROUNDING CLIP FOR FRAMED MODULES ON TRACKERS OR GROUND MOUNT



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

PowAR Cinch[™]

COMBINED PV MODULE FASTENING & GROUNDING CLIP





FRAMED PORTRAIT & LANDSCAPE

MODULES



APPLICATIONS

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BENEFITS

))) PERFORMING

Tested by accredited laboratories and qualified by major module manufacturers⁽¹⁾. Anti-theft designed.





))) QUICK

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

))) EASY TO USE

Tool-free set up. Friendly: clips can be inserted from underneath the array, no need to step on the module. Maintenance free as no torque correction required. Minimal training required. Very flexible: no worry about module frame's hole and structure hole mismatch.

))) COST SAVING

Lower overall costs of the PV installation. Lower maintenance costs: Screw-less, no periodic torque control required. Hot spot risk reduction for PV modules thanks to elastic mechanical clamping⁽³⁾.

(1) Report available on demand (2) According to field tests results available on demand.

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





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HOW TO SELECT THE POWAR CINCH[™] REFERENCE

PowAR CINCH[™]'s choice depends on solar field's configurations and on total thicknesses of rail + module frame's lip.

Solar field's configurations

		MODULE CONFIGURATION						
		PORTRAIT		LANDSCAPE				
	SHARED RAILS		Do not exist				PowAR CINCH™ LOCKED	
	NO SHARED RAILS		PowAR CINCH™			Do not exist		
VERTICAL RAIL	SHARED RAILS		For titled fix: PowAR CINCH™ For Trackers: PowAR CINCH™ LO	CKED			PowAR CINCH™	
	NO SHARED RAILS		Do not exist				PowAR CINCH™ LOCKED	
		Shared r	ails ed rails	Portrait cor	nfiguration		Landscape configuration	

Scope of use

		A = TICKNESSES OF RAIL + MODULE FRAME'S LIP						
		A MIN in mm						A MAX in mm
CINCH™	Narrow (S) Ref. 240865	2.3		3				
PowAR	Wide (L) Ref. 243648				3.3	3.8		
PowAR CINCH TM LOCKED	Narrow (S) Ref. 247433		2.7		3.5	5		
	Wide (L) Ref. 250381				3.3		4.15	
	Extra Wide (XL) Ref. 248217						3.8	4.65







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EXAMPLES OF RAIL SPECIFICATIONS

PowAR CINCH[™]









PowAR CINCH[™] LOCKED













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		POWAR CINCH [™] LOCKED NARROW (S)	POWAR CINCH [™] LOCKED WIDE (L)	POWAR CINCH [™] LOCKED EXTRA WIDE (XL)					
		2.7 mm <= (Thicknesses Rail + module's frame) <= 3.55 mm	3.3 mm <= (Thicknesses Rail + module's frame) <= 4.15 mm	3.8 mm <= (Thicknesses Rail + module's frame) <= 4.65 mm					
RODUCT DETAILS	ARTICLE N°	247433	250381	248217					
	MATERIAL	Steel 1.1231- DIN EN 10132:2000 (SAE 1070 - ASTM AISI)							
	SURFACE TREATMENT	Zn Al Flake coating							
	DIMENSIONS IN MM	27 x 19.5 x 20							
<u>م</u>	WEIGHT IN G	13							
PERFORMANCES	MECHANICAL RESISTANCE	Load +5400/-2400 Pa compliant with IEC 61215-10.16:2005							
	CORROSION RESISTANCE	No red rust after 720 hours salt spray acc. EN 60068-2-11:1999							
	GROUNDING CONTINUITY	Compliant with IEC 604391:20014 8.2.4.1 after 240 hours salt spray, acc. to EN 60068-2-11:1999							
NT NT	PV MODULE SPECIFICATIONS	Module with minimum lip length B of 16 mm, see page 2							
ME	RAIL SPECIFICATIONS	See technical drawings (5), (6), (7) and (3), see page 3							

*Other surface treatment available on demand.

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

www.araymond-energies.com

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