

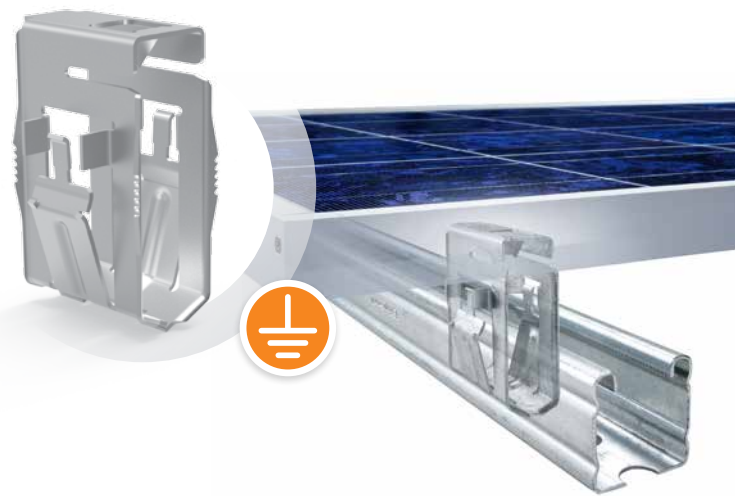
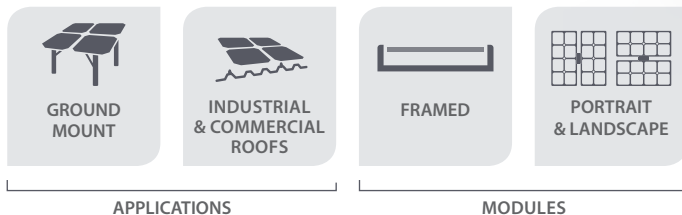
# FASTENING & GROUNDING CLIP FOR FRAMED MODULES AND STEEL STRUCTURES



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

## PowAR Snap<sup>®</sup> 90B

- **Now UL recognized for grounding**
- **Easy and tool-free fastener** of the module to the strut or steel rail.
- **Simply slides** onto the module frame and snaps into channeled strut or steel rail.



## BENEFITS

### ))) PERFORMING

UL recognized to UL 2703 (Ed. 2010) section 17 for temperature cycling testing.  
UL recognized to UL 2703 (Ed. 2010) section 18 for humidity testing.  
UL recognized to UL 2703 (Ed. 2010) section 19 for corrosive atmosphere testing.  
UL recognized to UL 2703 (Ed. 2010) section 21 for mechanical load testing.  
UL recognized to UL 2703 (Ed. 2010) section 22 for bonding conductor testing.

### ))) EASY TO USE

Tool free: low mounting effort.  
Multiple access: module assembly from top or bottom.  
Maintenance friendly: no torque control required.

### ))) COST SAVING

Fast assembly: 2 minutes per module saved<sup>(1)</sup>.  
Foot print reduction: for solar on-ground installations up to 3%<sup>(2)</sup>.

(1) According to field tests results available on demand

(2) Clamp-less solution allowing 3 cm average space saving between each module



## TECHNICAL SPECIFICATIONS



		CLIP FOR PV MODULE FASTENING	REMOVAL TOOL
		PowAR Snap® 90B HDG coating	PowAR Snap® 90B
Product details	ARTICLE N°	237390001	227130000 (bottom removal) 229959000 (side removal)
	MATERIAL	SAE 1050-1065 STEEL	1018 STEEL HRPO
	SURFACE TREATMENT	Hot dip galvanised 1 oz./sq.ft. Minimum (60 microns thickness)	BLACK OXIDE FINISH
	DIMENSIONS IN MM	39.2x63.3x34	-
	WEIGHT IN G	50	-
Performances	TEMPERATURE RESISTANCE	UL recognized to UL 2703 (Ed. 2010) section 17	-
	HUMIDITY RESISTANCE	UL recognized to UL 2703 (Ed. 2010) section 18	-
	CORROSION RESISTANCE	UL recognized to UL 2703 (Ed. 2010) section 19	-
	MECHANICAL RESISTANCE	UL recognized to UL 2703 (Ed. 2010) section 21	-
	GROUNDING CONTINUITY	UL recognized to UL 2703 (Ed. 2010) section 22	-
Environment	PV MODULE SPECIFICATIONS	PV module with frame thickness A between 1.5 to 2.2 mm and minimum lip length B of 16mm (see technical drawing 1)	
	RAIL SPECIFICATIONS	Standard 1 5/8" strut rail (41 x 41 or 41 x 62 mm) (see technical drawing 2), or steel rails with square punch (see technical drawing 3) or with specific punch (see technical drawing 4)	

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

## TECHNICAL DRAWINGS

