SOLARLOK Z-RAIL

ENHANCED JUNCTION BOX FOR 1500V APPLICATIONS

The SOLARLOK Z-Rail enhanced junction box terminates the foils of crystalline PV panels with clamped connections while supporting voltage ratings of 1500V for UL3730 and 1500V for IEC62790. The SOLARLOK Z-Rail enhanced junction box for 1500V applications is manufactured with durable materials that reduce the stress on individual components, extend the life of the product and increase reliability. The junction box provides a flexible, open system structure, which allows serial or parallel interconnection via a direct wire connection or separable connectors.



Applications

Photovoltaic installations including those with:

- Extreme water conditions
- Upgraded 1500V voltage in standard use
- Open or accessible installations where decoupling must be limited
- Multi agency approval requirements

Electrical

• Rated Current: 13A

• Withstanding Voltage: 1500V DC (UL) 1500V DC (TUV/IEC)

Mechanical

Overall Junction Box Size: 115 x 110 x 23.8 mm
Operating Temperature: -40 to +115 °C

• Ingress Protection Rating: IP67

Applicable Cable: 2.5-6 mm² (14-10 AWG)
Connector Interface: PV4-S (common PV interface)

Specifications

Product Specifications: 108-2471-1
Applications Specifications: 114-13303-1

Materials

• Contact Rail: Tin plated copper alloy

• Cover and Base Housing: PPE + PS

Standards

- 1000V / 1500V UL approved per UL3730
- 1000V / 1500V TUV approved per EN62790

Benefits

- Unique rail design for exchangeable diodes
- · Material withstands harsh environments
- Extends product lifetime with ammonia and salt water resistant materials
- Rails available for welding and clamping with Omega or S-Clips
- · Use of vent for humidity control
- Installation with a line takes 40 seconds or less and no potting necessary

PV4-S connectors:

- Provides waterproof protection and is rated IP68 (1 m / 24 hours)
- Minimizes power loss by providing low contact resistance



Product Selection Information

SOLARLOK Z-RAIL 1500V

Туре	Part Number	Description	Cable length (meters)
PREFERRED CHOICE	<u>2270083-1</u>	4-RAIL, WITH OMEGA-CLIP, NO FIXING TAPE	1.0
STANDARD	<u>1-2270083-1</u>	4-RAIL, WITH OMEGA-CLIP, WITH FIXING TAPE	1.0
STANDARD	2270083-2	4-RAIL, WITH OMEGA-CLIP, NO FIXING TAPE 1.	
STANDARD	<u>1-2270083-2</u>	4-RAIL, WITH OMEGA-CLIP, WITH FIXING TAPE	1.2
PREFERRED CHOICE	<u>2270135-1</u>	4-RAIL, WITH S-CLIP, NO FIXING TAPE 1.0	
STANDARD	<u>1-2270135-1</u>	4-RAIL, WITH S-CLIP, WITH FIXING TAPE 1.	
STANDARD	2270135-2	4-RAIL, WITH S-CLIP, NO FIXING TAPE 1.2	
STANDARD	1-2270135-2	4-RAIL, WITH S-CLIP, WITH FIXING TAPE 1.2	



SOLARLOK Z-RAIL 1000V

Туре	Part Number	Description	Cable length (meters)
PREFERRED CHOICE	<u>2270170-1</u>	4-RAIL, WITH OMEGA-CLIP, NO FIXING TAPE	1.0
STANDARD	<u>1-2270170-1</u>	4-RAIL, WITH OMEGA-CLIP, WITH FIXING TAPE	1.0
STANDARD	2270170-2	4-RAIL, WITH OMEGA-CLIP, NO FIXING TAPE	1.2
STANDARD	1-2270170-2	4-RAIL, WITH OMEGA-CLIP, WITH FIXING TAPE	1.2
PREFERRED CHOICE	<u>2270176-1</u>	4-RAIL, WITH S-CLIP, NO FIXING TAPE	1.0
STANDARD	<u>1-2270176-1</u>	4-RAIL, WITH S-CLIP, WITH FIXING TAPE	
STANDARD	2270176-2	4-RAIL, WITH S-CLIP, NO FIXING TAPE	1.2
STANDARD	1-2270176-2	4-RAIL, WITH S-CLIP, WITH FIXING TAPE	1.2

SOLARLOK Z-RAIL ACCESSORIES

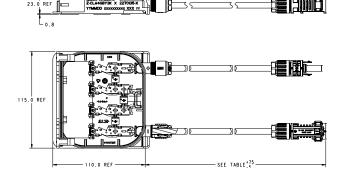
Type	Part Number	Description
STANDARD	<u>1740873-8</u>	OMEGA-CLIP
STANDARD	2232234-1	S-CLIP
STANDARD	2-2152179-2	DIODE REPAIR-KIT SL1515
STANDARD	<u>2-2152179-1</u>	DIODE REPAIR-KIT F1200DC

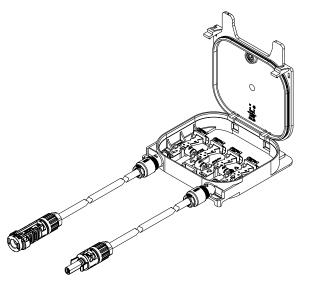


<u>1740873-8</u> OMEGA CLIP



Dimensions





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USA: +1 (800) 522-6752 Canada: +1 (905) 475-6222 Mexico: +52 (0) 55-1106-0800 Latin/S. America: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999 UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 The Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015

