SOLARLOK PV EDGE DECENTRALIZED JUNCTION BOX

TE Connectivity's (TE) SOLARLOK PV Edge decentralized junction box is the first clamping and non-potting junction box in the market using the edge as a relevant position for the mounting without hole drilling. The flaps (available in different shoulder heights) protect the foils and the user so it is a pure IEC & UL approved 1500V solution. Due to a clamping and non-potted design, the installation is extremely quick and no curing time delay of >6hrs applies.



Applications

- Building integrated photovoltaics (BIPV) panels
- Bifacial solar panels
- · Half cell solar panel

Electrical

• Rated Current: 15A standard version

17A special version

• Withstanding Voltage: 1500V DC (UL)

1500V DC (TUV/IEC)

Mechanical

• Temperature Range: -40 to +115°C

Specifications

Product Specification: 108-32122
 Application Specification: 114-32157

Materials - Cover and Base Housing

- Polyphenyl ethers (PPE)
- Polystyrene (PS)

Standards

- 1500V UL approved per UL3703
- 1500V TUV approved per IEC62790

Benefits

- Quick installation time with a line and no potting necessary
- Reliability is increased with no holes in the panels that can cause damage
- Better heat transfer in case of shading with diode in separate compartment
- Increase power handling by 2A with thermal pad design
- Reduce foil installation time with the lid and base angled (shaped) design
- Available in E-W and N-S rail directions to cover all possible module layouts
- Provides waterproof protection and is rated IP68 (1 m / 24 hours)
- · Use of vent for humidity control
- Includes integrated PV4-S interface into the junction box



Product Selection Information







Glass-Glass Edge Mount Application with Flap

Foil Orientation	Used Clip	Flap	Fixing Tape	Left Box minus coded (male interface)	Center Box (no interface)	Right Box plus coded (female interface)
North - South	S-Clip	Standard	No	2306314-2	2306314-5	2306314-1
			Yes	1-2306314-2*	<u>1-2306314-5*</u>	1-2306314-1*
		Large	No	<u>2307520-2</u>	<u>2307520-5</u>	<u>2307520-1</u>
			Yes	<u>1-2307520-2</u>	<u>1-2307520-5</u>	1-2307520-1
	Omega-Clip	Standard	No	2306316-2	2306316-5	<u>2306316-1</u>
			Yes	<u>1-2306316-2</u>	<u>1-2306316-5</u>	<u>1-2306316-1</u>
		Large	No	2307521-2	2307521-5	<u>2307521-1</u>
			Yes	<u>1-2307521-2</u>	<u>1-2307521-5</u>	<u>1-2307521-1</u>

Traditional Mid-Panel Application

Foil Orientation	Used Clip	Flap	Fixing Tape	Left Box minus coded (male interface)	Center Box (no interface)	Right Box plus coded (female interface)
East - West	S-Clip	No	No	<u>4-2306315-2</u>	4-2306315-5	4-2306315-1
			Yes	<u>5-2306315-2*</u>	<u>5-2306315-5*</u>	<u>5-2306315-1*</u>
	Omega-Clip	No	No	<u>4-2306317-2</u>	4-2306317-5	4-2306317-1
			Yes	5-2306317-2	<u>5-2306317-5</u>	5-2306317-1

*PREFERRED PART NUMBERS

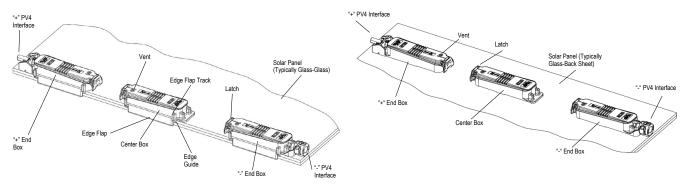
1500V PV4-S cable jumpers (4mm²/AWG12)

Description	Size (mm)	Part Number	
PV4-S Male to Female Cable Jumpers	300	<u>2213759-1</u>	
PV4-S Male to Female Cable Jumpers	500	2213759-3	
PV4-S Male to Female Cable Jumpers	1000	<u>2213759-8</u>	



Glass-Glass Edge Mount Application with Flap

Traditional Mid-Panel Application



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