

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

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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* | 1-2306314-5* | 1-2306314-1* |
| | Large | No | 2307520-2 | 2307520-5 | 2307520-1 | |
| | | Yes | 1-2307520-2 | 1-2307520-5 | 1-2307520-1 | |
| | Omega-Clip | Standard | No | 2306316-2 | 2306316-5 | 2306316-1 |
| | | | Yes | 1-2306316-2 | 1-2306316-5 | 1-2306316-1 |
| Large | No | 2307521-2 | 2307521-5 | 2307521-1 | | |
| Yes | 1-2307521-2 | 1-2307521-5 | 1-2307521-1 | | | |

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 | 4-2306315-2 | 4-2306315-5 | 4-2306315-1 |
| | | | Yes | 5-2306315-2* | 5-2306315-5* | 5-2306315-1* |
| | Omega-Clip | No | No | 4-2306317-2 | 4-2306317-5 | 4-2306317-1 |
| | | | Yes | 5-2306317-2 | 5-2306317-5 | 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 | 2213759-1 |
| PV4-S Male to Female Cable Jumpers | 500 | 2213759-3 |
| PV4-S Male to Female Cable Jumpers | 1000 | 2213759-8 |



Glass-Glass Edge Mount Application with Flap



Traditional Mid-Panel Application



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