



Introducing SOLARLOK 1-rail Junction Box (Potting Version)

Ever wondered how to hide the junction box in BiPV applications? TE's new SOLARLOK 1-rail junction box, designed both for thin-film and BiPV potting applications, allows you to decentralize the two leads in separate locations on the back of the module. You can mount our low-profile SOLARLOK 1-rail junction box easily and unobtrusively on your panels and save two-thirds of the wiring as well. Save time, wiring, and offer nicer-looking panels to your customers, with all the performance and reliability that our larger junction boxes offer.

KEY FEATURES

- 1-rail foil termination
- Low profile
- Allows potting, minimizes potting volume
- Protection levels: IP 20, IP 67
- Injection-molded technology with F-1 rated housing materials
- Diode or no diode versions
- Simple, cost-effective design
- Locking cover

APPLICATIONS

- For terminating the foils in thin-film panels
- Suitable for BiPV applications (building-integrated photovoltaics)

MECHANICAL

- Allows decentralization of two leads to be put in separate location on back of the PV panel
- Overall junction box size: 58 x 30 x 13 mm
- Operating and storage temperature: -40 °C to +85 °C
- Applicable cable: 2.5 mm² (AWG 14) or 4.0 mm² (AWG 12)
- Foil termination is welded to the contact rail

ELECTRICAL

- Isc up to 25 A no diode, 6 A with blocking diode
- Rated system voltage: 1,000 V (TÜV), 600 V (UL)
- Includes a plus and minus I/O for coming off a thin-film PV panel
- Connectors rated to 25 A

MATERIALS

- Contact rail: copper alloy
- Base housing: PA 66 (polyamide 66)
- Cover: PPO (polyphenylene oxide)

SPECIFICATIONS

- Product specification # 108-106055
- Application specifications # 114-106008 and # 114-740013
- Test specification # 109-197

PRODUCT OFFERING

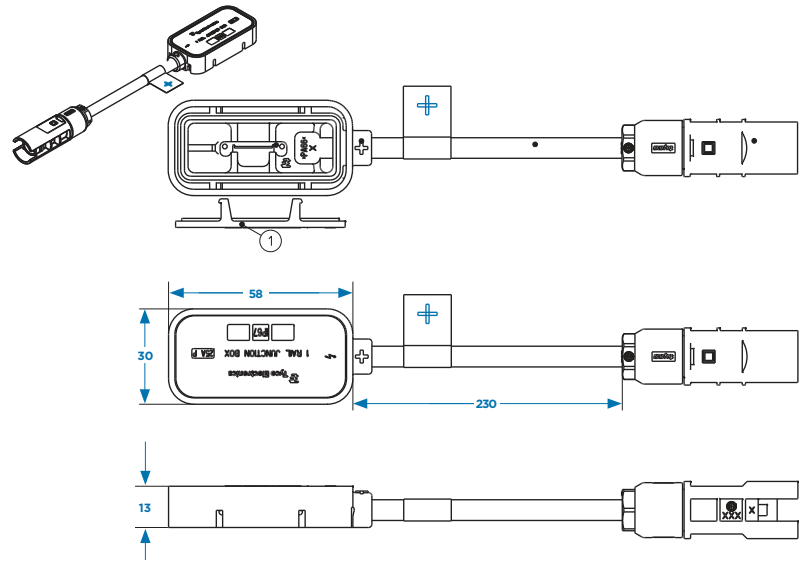
Part number	Description
1971645-1	Assembly, plus, no diode
1971645-2	Assembly, minus, no diode
1971645-3	Assembly, plus, with blocking diode



STANDARDS

- UL 1703 approval, pending
- TÜV approval, pending
- EIA-364, pending
- Safety class 2, pending
- DIN VDE V 0126-5, pending

PRODUCT DIMENSIONS (in mm)



RECOMMENDED ADHESIVES

- Single component silicone adhesive
- Dow Corning PV-804 Neutral Sealant, white, for glass PV panel back
- Tonsan 1527, gray/white, for glass PV panel back
Potting silicone adhesive
- Dow Corning PV7321
- Tonsan 1521 A/1521 B

APPLICATION TOOLING

Part number	Description
1-1579004-1	Hand crimp tool for screw machine contacts (1.5 mm ² and 2.5 mm ²)
1-1579004-2	Hand crimp tool for screw machine contacts (4.0 mm ² and 6.0 mm ²)
0-1102855-3	Extraction tool
1-1579002-2	Insulation stripper

