

AMPULSE HELICASE

SOLAR JUNCTION BOX

Compact • Weather Resistant

The AMPULSE Helicase solar junction box provides a compact, weather resistant diode enclosure for connecting roof top stand alone solar panel applications. Intelligently designed, the mechanical diode connections maximise thermal performance. Integrated stand offs and pre-defined recesses on the back of the box allow for ease of installation and provide uniform force distribution with optimal placement of sealant and minimal wastes. The cover snaps shut without the use of screws or fasteners and the lipped grommets assure that cable penetrations are dust free and water resistant to IP65 level rating. Integrated strain reliefs help provide a secure connection inside the low profile design.



Applications

- Solar panel installations

Electrical

- Operating Voltage: 1000V DC
- Maximum rated current: 8A
- Conductor cross section: 1.5, 2.5 and 4 mm²

Mechanical

- Adhesive Mounting
- Foil attach: Solder
- Maximum foil thickness: 0.5 mm
- Maximum foil width: 6 mm
- Standoff features: 0.7 mm

Specifications

- Product Specification: [108-32067](#)
- Application Specification: [114-32131](#)
- Designed to meet IEC62790

Materials

- Housing and Cover: PPE+PS
- Grommet and Seal: Silicone
- Contacts: Copper alloy

Standards

- Designed to meet 1000V IEC62790

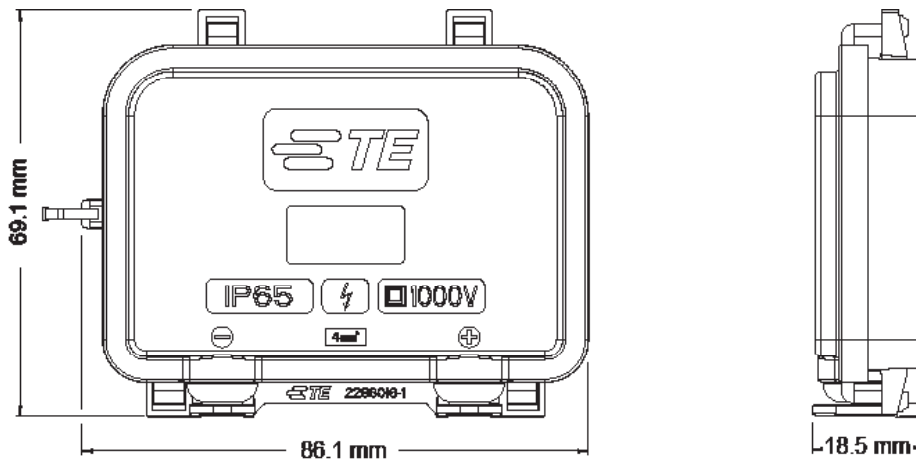
Benefits

- Sealed design creates a dust-free and water tight enclosure with IP65 rating
- Provides a tight seal with a lipped grommet around the cable penetrations
- Low profile design of 18.5 mm
- Eases assembly with a screw-free snap and seal installation
- Supports both soldered or ring terminal connections
- Pre-defined adhesive space provides proper installation
- Increase thermal management with staggered diode placement
- Material withstands harsh environments

Product Selection Information

Type	Part Number	Contact Rails	Diodes	Rated Current	Voltage	Cable Diameter (millimeters)	Foil termination
PREFERRED CHOICE	2286016-1	3	2	8A	1000V	4.5 to 5.6 mm	Solder
STANDARD	2286016-3	2	1	8A	1000V	4.5 to 5.6 mm	Solder
STANDARD	2286016-4	3	2	8A	1000V	4.5 to 5.6 mm	Screw

Dimensions



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