

RADOX® SolarBox HS3

Junction box for crystalline PV modules



Features

- Outstanding heat dissipation and thermal separation between junction box and module (patented)
- Quick and simple potting via direct potting
- Low potting volume (<8ml)
- Optimised design for automation
- Available with a variety of terminal designs
- Completely sealed – protection type IP67
- Optimised contact by soldering all components

Benefits

- Increased lifetime due to complete sealing and excellent heat dissipation
- Thermal resistance
- Suitable for automated manufacturing processes
- Can be used in different panel architectures and manufacturing processes
- Outstanding moisture protection through potting
- Reduction in handling and assembly time

RADOX® SolarBox HS3

Junction box for high performance modules

Approval

- DIN V VDE V 0126-5 (TÜV Rheinland, Tests passed successfully)
- UL3730 (UL, in process)

Order information

Product	Item no.
SolarBox HS3 (inline access)	85001359 (SolarBox HS3-A12HREE101 H+S)
SolarBox HS3 (side access)	85001366 (SolarBox HS3-B12HREE101 H+S)

Technical data

Electrical data	85001359	85001366
Rated voltage	1000 V DC (EN) / 600 V DC (UL)	1000 V DC (EN) / 600 V DC (UL)
Max. blocking voltage per diode	≤ 45 V DC	≤ 45 V DC
Rated current	12.0 A (EN) / 15.0 A (UL)	12.0 A (EN) / 15.0 A (UL)
Test current ($I_{sc} \times 1.25$)	15.0 A (EN)	15.0 A (EN)
Use of diode	Bypass mode	Bypass mode

Physical/mechanical data	
Overall dimensions (box only)	153 x 75 x 16 mm (length x width x height)
Number of terminals	4
Dimensions of ribbons	Depending on configuration
Distance between ribbons	Depending on configuration
Terminal	Copper plate tin coated
Contact principle for copper ribbons	Soldering or welding
Cables 4 mm ² , 1000 mm length each	2 x RADOX® SOLAR cable (TÜV) 2 x RADOX® SOLAR SMART (TÜV/UL)
Connectors	RADOX® SOLAR connectors 4 mm ² twist-lock

Environmental data	
Temperature range	-40 °C to +85 °C
Chemical resistance	UV- and ozone resistant
Protective insulation	protection type II
Protection mode	IP 67

Material data	
Housing / Lid	PPE + PS - HI

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