

String combiner box (SCB) - SOL-SC-1ST-0-DC-2MPPT-2000SE - 1105828

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String combiner box for photovoltaic systems up to 1000 V DC for the connection of 2x 1 string. With surge protection and Push-in connection for the input and output side.

Similar figure

Product Description

The Solarline string combiner boxes (SCBs) are used in both small rooftop systems and large ground-mounted systems. Their functions include collecting and protecting strings and, if necessary, separating the panels from the rest of the system by means of a fire service or switch disconnectors.

Your advantages

- Fast installation and startup
- Large portfolio of string combiner boxes in stock
- Application-oriented consultation
- Standard-compliant switchgear and controlgear assembly, thanks to use of DIN EN 61439



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
GTIN	
GTIN	4055626990507
Weight per Piece (excluding packing)	5.000 kg
Weight per piece (including packing)	5.000 kg
Country of origin	Germany
Sales Key	V1 - Terminl Blocks+Boxes
Note	Made to Order (non-returnable)

Technical data

System parameter

System voltage	1000 V DC (U_{max})
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Technical data

System parameter

Current per string (max.)	40 A (I_{max})
Number of outputs	1 (per MPP tracker)
Number of supported MPP trackers	2

Safety equipment

Surge protective device	T2
Protection level U_p	≤ 3.7 kV
Total discharge current I_{total} (8/20) μs	40 kA

Cable entry

Type of cable entry	Cable gland
Cable cross section string input	2.5 mm ² ... 6 mm ²
Sealing area string input	3 mm ... 6.5 mm
Cable cross section output	2.5 mm ² ... 6 mm ²
Sealing area output	3 mm ... 6.5 mm
Cable cross section grounding	16 mm ² (2 x)
Sealing area grounding	6 mm ... 12 mm (2x)

General data

Material cover/door	Polycarbonate (transparent)
Degree of protection	IP65
Protection class	II

Dimensions

Outer dimensions: width, height, depth	254 mm x 180 mm x 111 mm (Housing dimensions)
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Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
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Drawings

Schematic diagram



Connection of the PV strings, as well as connection to the inverter

Schematic diagram



Connection of the protective grounding conductor

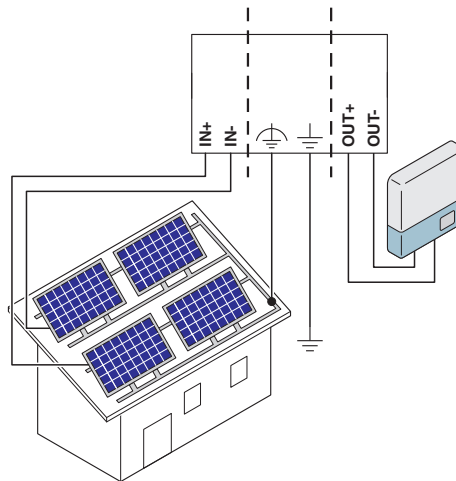
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Schematic diagram



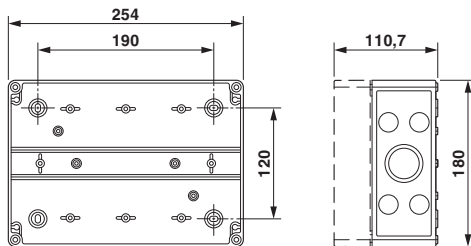
Connection of the protective equipotential bonding conductor

Connection diagram



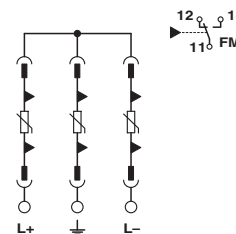
Schematic application drawing

Dimensional drawing



Housing dimensions

Circuit diagram



Connection of the remote indication contact on the surge protection