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Switching device combination - SOL-SC-2ST-0-DC-2MPPT-1001 - 2404295

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String combiner box for photovoltaic systems up to 1000 V DC for the connection of 2x 2 strings. With surge protection and SUNCLIX DC connector for the input and output side.

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.

Why buy this product

- 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

RoHS

Key Commercial Data

Packing unit	1 STK
Minimum order quantity	25 STK
GTIN	4 055626 367590
GTIN	4055626367590
Custom tariff number	85363030
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})
Number of string inputs	2 (per MPP tracker)
Current per string	20 A (I_{max})

https://www.phoenixcontact.com/de/products/2404295

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Technical data

System parameter

Number of outputs	1 (per MPP tracker)
Number of supported MPP trackers	2

Safety equipment

Surge protective device	T1 / T2
Protection level U_p	≤ 3.5 kV
Total discharge current I_{total} (8/20) µs	40 kA
Total discharge current I_{total} (10/350) µs	5 kA

Cable entry

Type of cable entry	SUNCLIX
Cable cross section string input	2.5 mm² ... 6 mm²
Cable cross section output	2.5 mm² ... 6 mm²
Cable cross section grounding	16 mm² (2x)
Sealing area grounding	6 mm ... 12 mm (2x)

General data

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

Dimensions

Width	254 mm
Height	180 mm
Depth	111 mm
Note on dimensions	Housing dimensions

Ambient conditions

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

Drawings

Schematic diagram



Connection of the protective grounding conductor

Schematic diagram

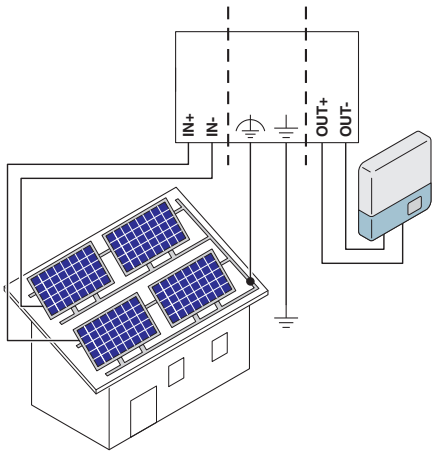


Connection of the protective equipotential bonding conductor

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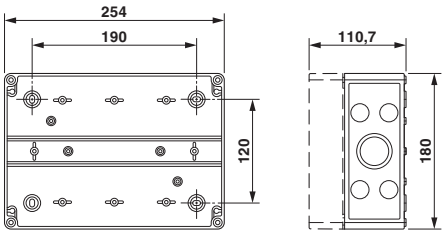
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Connection diagram



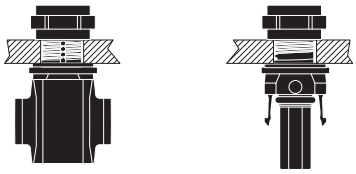
Schematic application drawing

Dimensional drawing



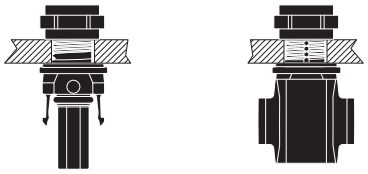
Housing dimensions

Schematic diagram



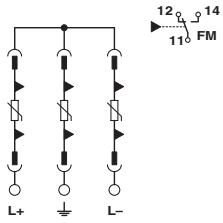
Connection of the PV strings

Schematic diagram



Connection to the inverter

Circuit diagram



Connection of the remote indication contact on the surge protection

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