

String combiner box (SCB) - SOL-SC-1ST-0-DC-2MPPT-1000SE - 1101176

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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.

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	4055626957821
Weight per Piece (excluding packing)	5.000 kg
Weight per piece (including packing)	5.000 kg
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})
----------------	-------------------------

String combiner box (SCB) - SOL-SC-1ST-0-DC-2MPPT-1000SE - 1101176

Technical data

System parameter

Number of string inputs	1 (per MPP tracker)
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	T1 / T2
Protection level U_p	≤ 3.5 kV
Total discharge current I_{total} (8/20) μ s	40 kA
Total discharge current I_{total} (10/350) μ s	5 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 (2 x)

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)
--	---

Ambient conditions

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

Drawings

Schematic diagram



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

Schematic diagram



Connection of the protective grounding conductor

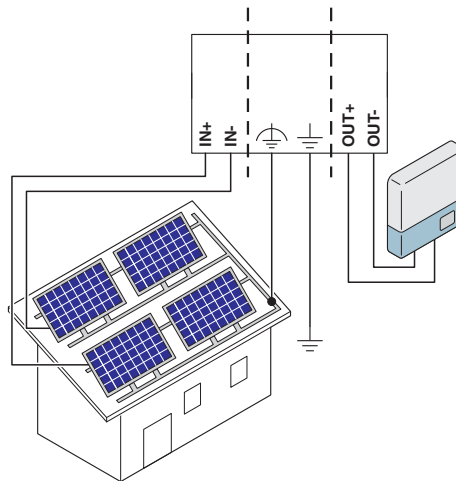
String combiner box (SCB) - SOL-SC-1ST-0-DC-2MPPT-1000SE - 1101176

Schematic diagram



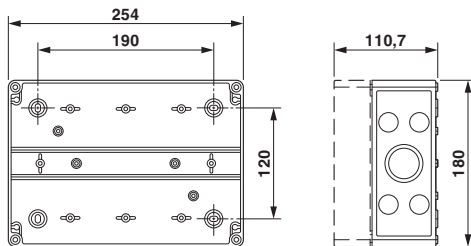
Connection of the protective equipotential bonding conductor

Connection diagram



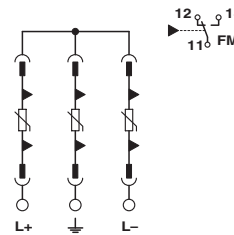
Schematic application drawing

Dimensional drawing



Housing dimensions

Circuit diagram



Connection of the remote indication contact on the surge protection