

String combiner box (SCB) - SOL-SC-2ST-0-DC-1MPPT-2000 - 1055626

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String combiner box for photovoltaic systems up to 1000 V DC for the connection of 1x 2 strings. 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 switch disconnecter or fire service switch disconnecter.

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
GTIN	 4 055626 693309
GTIN	4055626693309

Technical data

System parameter

Open-circuit voltage (U_{OC})	max. 1100 V DC
MPP voltage (U_n)	max. 1000 V DC
Number of string inputs	2
Current per string (max.)	20 A (I_{max})
Number of outputs	1 (per MPP tracker)
Number of supported MPP trackers	1

Safety equipment

Surge protective device	T2
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Safety equipment

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 (2 x)

General data

Material cover/door	Polycarbonate (transparent)
Housing material	Polycarbonate
Weight	1750 g
Degree of protection	IP65
Protection class	II

Dimensions

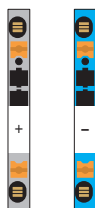
Outer dimensions: width, height, depth	180 mm x 180 mm x 111 mm (Housing dimensions)
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Ambient conditions

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

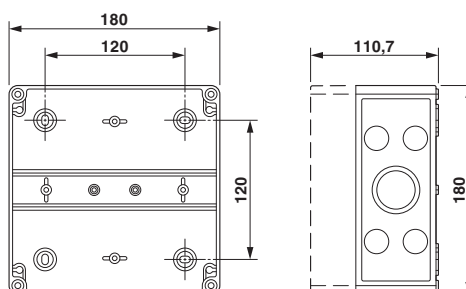
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Schematic diagram



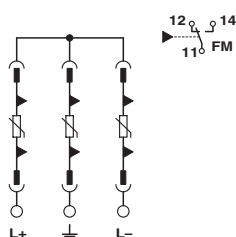
Connection of the protective equipotential bonding conductor

Dimensional drawing



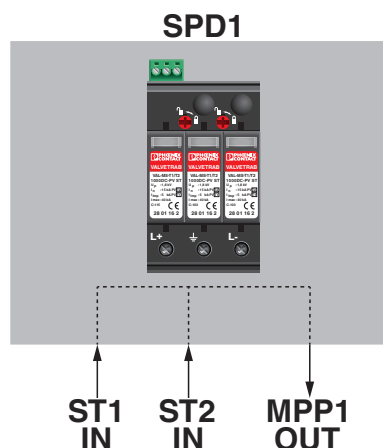
Housing dimensions

Circuit diagram



Connection of the remote indication contact on the surge protection

Connection diagram



Schematic application drawing

Classifications

eCl@ss

eCl@ss 10.0.1	27142422
eCl@ss 11.0	27142422
eCl@ss 5.1	27371890
eCl@ss 7.0	27142422
eCl@ss 9.0	27142422

ETIM

ETIM 4.0	EC000268
ETIM 6.0	EC000268
ETIM 7.0	EC000268

UNSPSC

UNSPSC 18.0	39121116
UNSPSC 19.0	39121116

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Classifications

UNSPSC

UNSPSC 20.0	39121116
UNSPSC 21.0	39121116

Accessories

Accessories

Tool set

Tool set - TOOL-KIT SOLAR - 1212071



Tool case, equipped with: crimping pliers, pressing dies for MC3, MC4 and SOLARLOK connectors, stripping tool for commercially available solar cables, stripping tool for SUNCLIX, VDE cable cutter, VDE screwdriver: PH1, PH2, 0.6x3.5 and 0.8x4.0 slots.

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