

# Switching device combination - SOL-SC-4ST-0-DC-1MPPT-2000 - 2403334

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String combiner box for photovoltaic systems up to 1000 V DC for the connection of 1x 4 strings. With surge protection and cable glands 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



## Key Commercial Data

Packing unit	1 STK
Minimum order quantity	25 STK
GTIN	 4 055626 369082
GTIN	4055626369082
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	4
Current per string	10.25 A ( $I_{max}$ )

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### Technical data

#### System parameter

Number of outputs	1
Number of supported MPP trackers	1

#### Safety equipment

Surge protective device	T2
Protection level $U_p$	$\leq 3.7$ kV
Total discharge current $I_{total}$ (8/20) $\mu$ s	40 kA

#### Cable entry

Type of cable entry	Cable gland
Cable cross section string input	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Sealing area string input	3 mm ... 6.5 mm
Cable cross section output	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Sealing area output	3 mm ... 6.5 mm
Cable cross section grounding	16 mm <sup>2</sup>
Sealing area grounding	6 mm ... 12 mm

#### General data

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

#### Dimensions

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

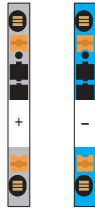
#### Ambient conditions

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

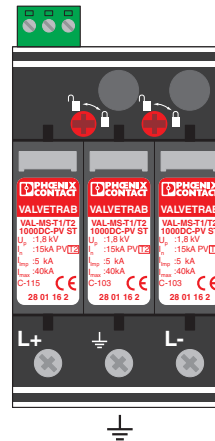
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Schematic diagram



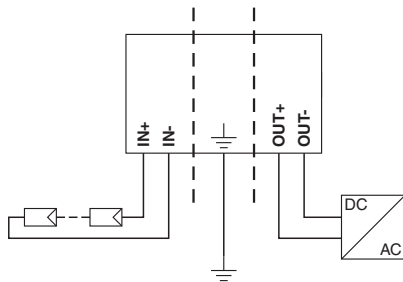
Connection of the PV strings, as well as connection to the inverter

Schematic diagram



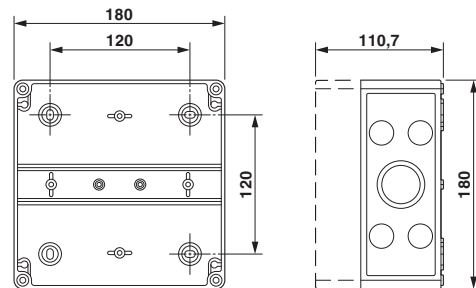
Connection of the protective grounding conductor on the surge protection

Connection diagram



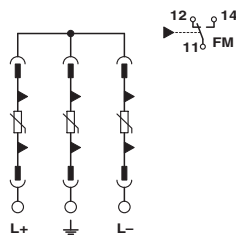
Schematic application drawing

Dimensional drawing



Housing dimensions

Circuit diagram



Connection of the remote indication contact on the surge protection