

## String combiner box (SCB) - SOL-SC-2ST-0-DC-2MPPT-1001EQ - 1117754

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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.

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

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| Minimum order quantity               | 25 pc                                                                                                   |
| GTIN                                 | <br>4 063151 044954 |
| GTIN                                 | 4063151044954                                                                                           |
| Weight per Piece (excluding packing) | 5.000 kg                                                                                                |
| Weight per piece (including packing) | 5.000 kg                                                                                                |
| 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                       |

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## Technical data

### System parameter

|                                  |                     |
|----------------------------------|---------------------|
| Current per string (max.)        | 20 A ( $I_{\max}$ ) |
| Number of outputs                | 2                   |
| Number of supported MPP trackers | 2                   |

### Safety equipment

|                                                                   |               |
|-------------------------------------------------------------------|---------------|
| Surge protective device                                           | T1 / T2       |
| Protection level $U_p$                                            | $\leq 3.5$ kV |
| Total discharge current $I_{\text{total}}$ (8/20) $\mu\text{s}$   | 40 kA         |
| Total discharge current $I_{\text{total}}$ (10/350) $\mu\text{s}$ | 5 kA          |

### Cable entry

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Type of cable entry              | SUNCLIX                                   |
| Cable cross section string input | 2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Cable cross section output       | 2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Cable cross section grounding    | 16 mm <sup>2</sup> (2x)                   |
| 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) |
|----------------------------------------|-----------------------------------------------|

### Ambient conditions

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

## Drawings

Schematic diagram



Connection of the protective grounding conductor

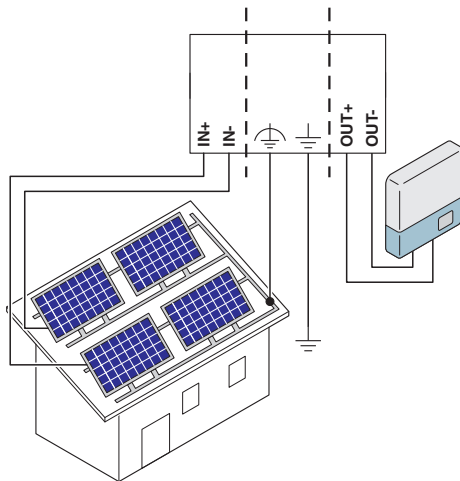
Schematic diagram



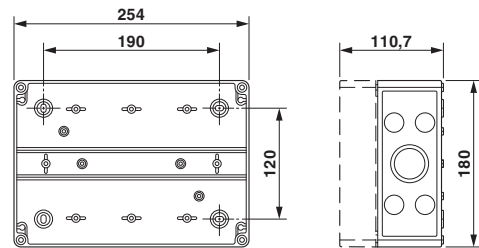
Connection of the protective equipotential bonding conductor

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Connection diagram



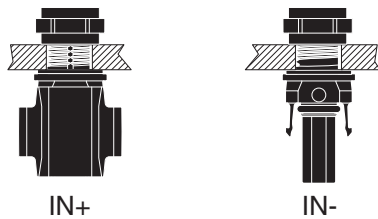
Dimensional drawing



Housing dimensions

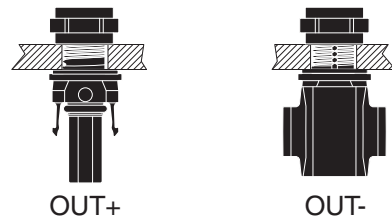
Schematic application drawing

Schematic diagram



Connection of the PV strings

Schematic diagram



Connection to the inverter