

# Switching device combination - SOL-SC-1ST-0-DC-2MPPT-1001 - 2404299

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String combiner box for photovoltaic systems up to 1000 V DC for the connection of 2x 1 string. 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



# **Key Commercial Data**

Packing unit	1 STK
GTIN	4 055626 396248
GTIN	4055626396248
Weight per piece (including packing)	5.000 kg
Custom tariff number	85363030
Country of origin	Germany
Sales Key	V1 - Terminl Blocks+Boxes

# Technical data

#### System parameter

System voltage	1000 V DC (U <sub>max</sub> )
Number of string inputs	1 (per MPP tracker)
Current per string	40 A (I <sub>max</sub> )
Number of outputs	1 (per MPP tracker)

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# Technical data

#### System parameter

Number of supported MPP trackers	2

# Safety equipment

Surge protective device	T1 / T2
Protection level U <sub>p</sub>	≤ 3.5 kV
Total discharge current I <sub>total</sub> (8/20) μs	40 kA
Total discharge current I <sub>total</sub> (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	180 mm
Height	180 mm
Depth	111 mm
Note on dimensions	Housing dimensions

#### Ambient conditions

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

# **Drawings**

#### Schematic diagram



#### Schematic diagram



Connection of the protective grounding conductor

Connection of the protective equipotential bonding conductor



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Connection diagram

Dimensional drawing 180 110,7

Housing dimensions

Schematic application drawing

Schematic diagram





Schematic diagram

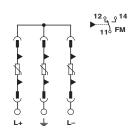




Connection of the PV strings

Connection to the inverter

# Circuit diagram



Connection of the remote indication contact on the surge protection

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