

## String combiner box (SCB) - SOL-SC1-16ST-0-F-T2-SD-21 - 1053596

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String combiner box for photovoltaic systems up to 1,000 V DC for the connection of up to 16 strings. With two-sided fuse protection via fuse holder, DC isolators, and type 2 surge protection. Cable entry via multiple cable gland. Including 15 A fuse-links

### 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 disconnect or fire service switch disconnect.

### Your advantages

- ✓ Large portfolio of string combiner boxes in stock
- ✓ Application-oriented analysis and consultation
- ✓ Use of the best connection technologies and suitable components
- ✓ Durable and error-free operation, thanks to comprehensively tested solutions
- ✓ Standard-compliant switchgear and controlgear assembly, thanks to use of DIN EN 61439

**RoHS**

### Key Commercial Data

Packing unit	1
GTIN	 4 055626 685182
GTIN	4055626685182
Custom tariff number	85363090

### Technical data

#### System parameter

System voltage	1000 V DC ( $U_{max}$ )
Number of string inputs	16
Current per string (typical)	9 A ( $I_{nc}$ )

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## Technical data

### System parameter

Current per string (max.)	12.5 A ( $I_{\max}$ , with limited temperature range)
Number of outputs	1 (per MPP tracker)
Number of supported MPP trackers	(not relevant)
Switching capacity	250 A

### Safety equipment

String fuse	10:3 x 38 mm (in scope of delivery)
Surge protective device	T2
IEC test classification	PV II
Protection level $U_p$	$\leq 3.7$ kV
Total discharge current $I_{\text{total}}$ (8/20) $\mu\text{s}$	40 kA

### Cable entry

Type of cable entry	Cable gland
Cable cross section string input	4 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Sealing area string input	5 mm ... 7 mm
Cable cross section output	120 mm <sup>2</sup>
Sealing area output	16 mm ... 28 mm
Cable cross section grounding	6 mm <sup>2</sup>
Sealing area grounding	6 mm ... 13 mm
Bolt diameter output (cable lug)	10 mm

### General data

Housing material	Fiberglass-reinforced plastic
Weight	16300 g
Installation location	Outdoor installation, roofed area, no direct sunlight
Degree of protection	IP65
Protection class	II
Impact strength	IK10

### Dimensions

Outer dimensions: width, height, depth	500 mm x 600 mm x 230 mm (Housing dimensions)
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### Ambient conditions

Ambient temperature (operation)	-20 °C ... 45 °C
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### Standards and Regulations

Standards/specifications	IEC 61439-2
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### 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	EC000816
ETIM 6.0	EC000268
ETIM 7.0	EC000268