

SOL-SC-2ST-0-DC-6MPPT-1000EQSE - String combiner box (SCB)



1318523

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String combiner box for photovoltaic systems up to 1000 V DC for connecting 6x 2 strings. Same number of input and output strings. With surge protection (type 1/2) 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. The main tasks of the SCBs are the surge protection of the photovoltaic system, collecting strings (if necessary), and looping through the protective equipotential bonding conductor for the local equipotential bonding.

Further functions are optional and depend on the equipment.

Examples of optional functions include protecting the strings with string fuses and disconnecting the strings via DC switch disconnectors or DC fire department switches.

You can determine the full scope of functions of the SCB from its item designation (see the application note for the type key of the SCB, which can be downloaded in the "Downloads" area).

Your advantages

- Fast installation and startup
- Standard-compliant switchgear and controlgear assembly, thanks to use of DIN EN 61439
- Application-oriented consultation
- Large portfolio of string combiner boxes in stock

Commercial data

Item number	1318523
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	DTHTDA
GTIN	4063151601720
Weight per piece (including packing)	10.1 kg
Weight per piece (excluding packing)	9.1 kg
Customs tariff number	85371098
Country of origin	DE

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Technical data

Product properties

Product type	String combiner box (SCB)
Insulation characteristics	
Protection class	II

Electrical properties

General

MPP voltage U_n	max. 1000 V DC
Non-load voltage U_{OC}	max. 1100 V DC
Current per string I_{max}	max. 20 A
Total current MPP tracker	max. 40 A

Surge protection

EN type	T1
IEC test classification	T1
Protection level U_p	≤ 3.5 kV
Total discharge current I_{total} (10/350) μs	5 kA
Total discharge current I_{total} (8/20) μs	40 kA
Short-circuit current rating I_{SCPV}	40 A

Input data

Number of inputs: Strings	2 (Per MPP tracker)
Number of supported MPP trackers	6

Output data

DC

Number of outputs: MPP tracker	6
Number of outputs: $\pm$	2 (Per MPP tracker)

Connection data

DC input

Type of cable entry	Cable gland
Connection method	Push-in connection
Cable cross-section range:	4 mm ² ... 6 mm ²
External cable diameter	5 mm ... 7 mm

Protective bonding and protective grounding conductor

Type of cable entry	Cable gland
Connection method	Push-in connection

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Cable cross-section range:	2x 16 mm ²
External cable diameter	2x 6 mm ... 13 mm

DC output

Type of cable entry	Cable gland
Connection method	Push-in connection
Cable cross-section range:	4 mm ² ... 6 mm ²
External cable diameter	5 mm ... 7 mm

Dimensions

Housing

Width	400 mm
Height	400 mm
Depth	200 mm

Material specifications

Material Housing	Polyester fiberglass reinforced
Material Cover/door	Polyester fiberglass reinforced

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-20 °C ... 50 °C

Standards and regulations

Standard designation	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies
Standards/specifications	EN 61439-2

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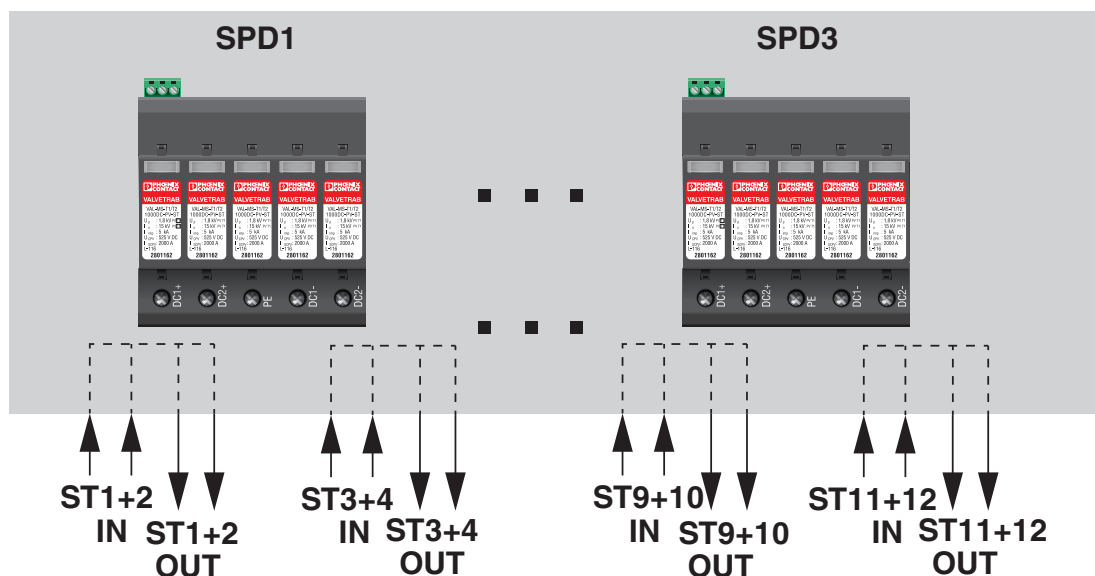


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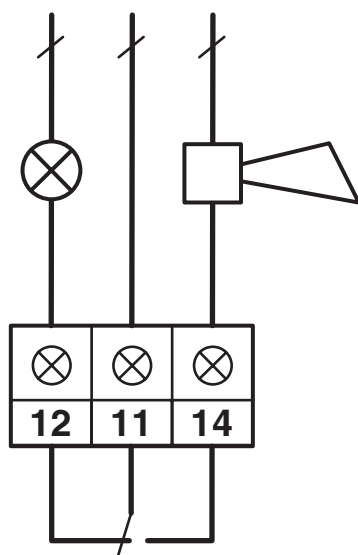
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Drawings

Connection diagram

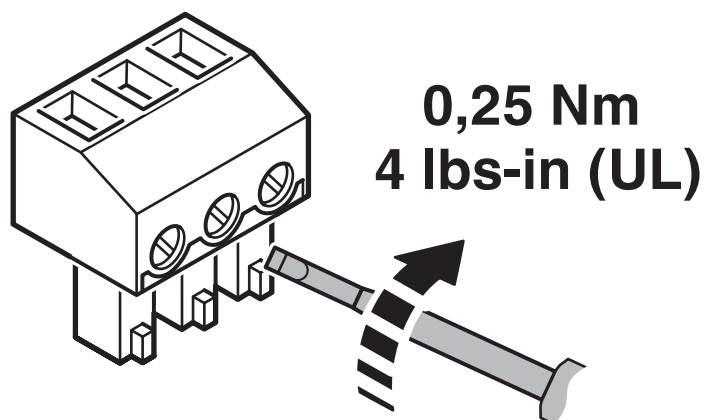


Schematic application drawing



Connection of the remote indication contact on the surge protection

Schematic diagram



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Classifications

ECLASS

ECLASS-11.0	27142422
ECLASS-13.0	27171490

ETIM

ETIM 9.0	EC003857
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UNSPSC

UNSPSC 21.0	39121100
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

VAL-MS-T1/T2 1000DC-PV-ST - Type 1/2 surge protection plug

2801162

<https://www.phoenixcontact.com/in/products/2801162>



Replacement plug for PV arrester combinations from the VAL-MS-T1/T2 1000DC-PV-... product range

TOOL-KIT SOLAR - Tool set

1212071

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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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