

SOL-SC-2ST-0-DC-10MPPT-1001SE - String combiner box (SCB)



1253218

<https://www.phoenixcontact.com/gb/products/1253218>

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Figure shows product without cover

String combiner box (SCB); MPP voltage: 1000 V DC; number of strings: 2; number of supported MPP trackers: 10; surge protection: T1 / T2; equipment: without special equipment; type of cable entry: SUNCLIX; scope of supply: DC connector for connecting the SCB

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	1253218
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DTHTDA
Product key	DTHTDA
GTIN	4063151361570
Weight per piece (including packing)	16 kg
Weight per piece (excluding packing)	15 kg
Customs tariff number	85371098
Country of origin	DE

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Technical data

Product properties

Product type	String combiner box (SCB)
Scope of supply	DC connector for connecting the SCB
Design	without special equipment

Insulation characteristics

Protection class	II
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Electrical properties

General

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

Surge protection

EN type	T1 / T2
IEC test classification	T1 / T2
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

DC

Number of inputs (Strings)	2 (Per MPP tracker)
Number of supported MPP trackers	10

Output data

DC

Number of outputs (MPP tracker)	10
Number of outputs (\pm per MPP tracker)	1 (Per MPP tracker)

Connection data

DC input

Type of cable entry	SUNCLIX
Cable cross-section range	2.5 mm ² ... 6 mm ²

Lightning protection equipotential bonding & ground conductor

Type of cable entry	Cable gland
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Connection method	Screw connection
Cable cross section	2x 16 mm ²
External cable diameter	6 mm ... 13 mm

DC output

Type of cable entry	SUNCLIX
Cable cross-section range	2.5 mm ² ... 6 mm ²

Dimensions

Housing

Width	600 mm
Height	400 mm
Depth	230 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 ... 55 °C

Standards and regulations

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

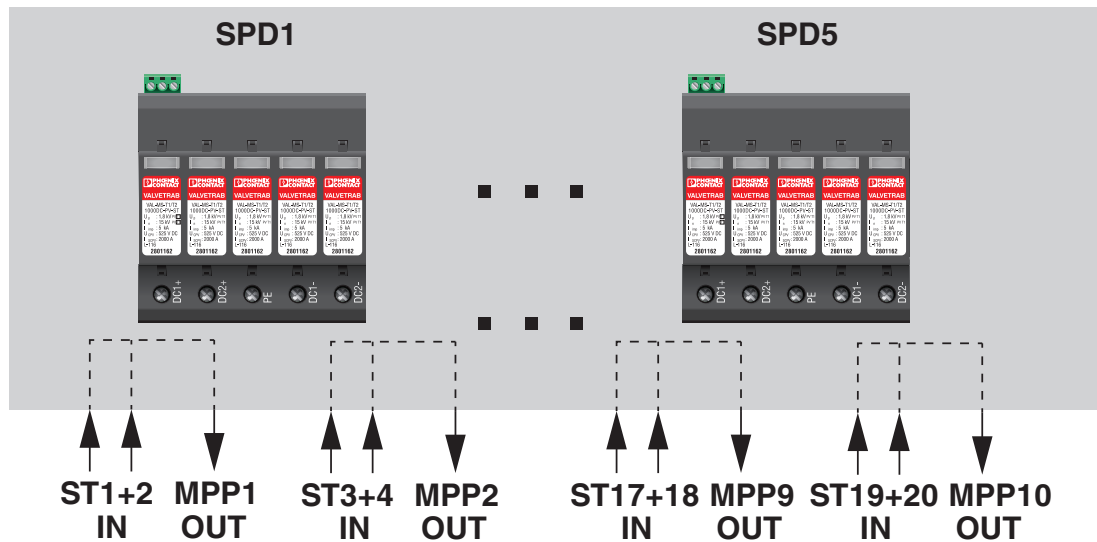
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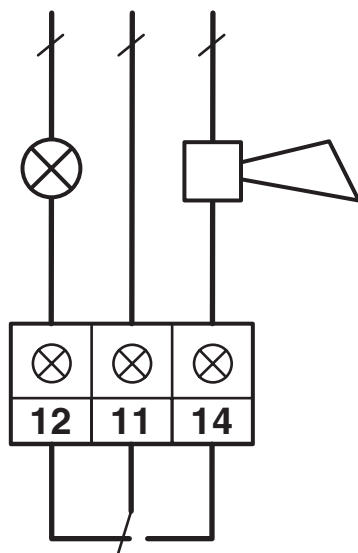
<https://www.phoenixcontact.com/gb/products/1253218>

Drawings

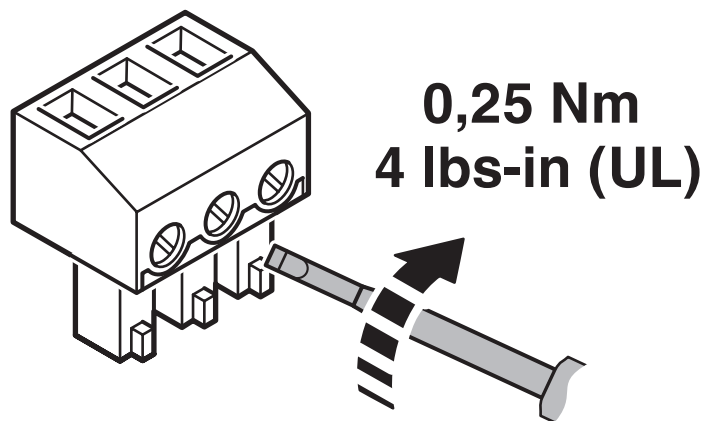
Connection diagram



Schematic application drawing



Schematic diagram



Connection of the remote indication contact on the surge protection

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Classifications

ECLASS

ECLASS-13.0	27171490
ECLASS-15.0	22570203

ETIM

ETIM 10.0	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
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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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