

2403336

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String combiner box for photovoltaic systems up to 1,000 V DC for connecting 3x 1 string. With surge protection (type 2) and SUNCLIX DC connectors for the input and output side (SUNCLIX mating connectors supplied as standard).

### 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
- · Large portfolio of string combiner boxes in stock
- · Application-oriented consultation

#### Commercial data

Item number	2403336
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DTHTAA
GTIN	4055626370507
Weight per piece (including packing)	2,920 g
Weight per piece (excluding packing)	2,920 g
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	
Insulation characteristics		
Protection class	II	

### Electrical properties

#### General

MPP voltage U <sub>n</sub>	max. 1000 V DC
Non-load voltage U <sub>OC</sub>	max. 1100 V DC
Current per string I <sub>max</sub>	max. 40 A

#### Surge protection

ourge protestion	
EN type	T2
IEC test classification	T2
Protection level U <sub>p</sub>	≤ 3.7 kV
Total discharge current I <sub>Total</sub> (8/20) µs	40 kA
Short-circuit current rating I <sub>SCPV</sub>	40 A

### Input data

DC

Number of inputs: Strings	1 (Per MPP tracker)
Number of supported MPP trackers	3

### Output data

DC

Number of outputs: MPP tracker	3
Number of outputs: ±	1 (Per MPP tracker)

#### Connection data

#### DC input

·	
Type of cable entry	SUNCLIX
Cable cross-section range:	2.5 mm² 6 mm²

#### Lightning protection equipotential bonding & ground conductor

Type of cable entry	Cable gland
Connection method	Screw connection
Cable cross-section range:	2x 16 mm²
External cable diameter	2x 6 mm 12 mm

#### DC output



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Standards/specifications

Type of cable entry	SUNCLIX
Cable cross-section range:	2.5 mm² 6 mm²
imanajana	
imensions	
Housing	
Width	254 mm
Height	180 mm
Depth	111 mm
laterial specifications	
Material Housing	Polycarbonate
Material Cover/door	Polycarbonate (transparent)
nvironmental and real-life conditions  Ambient conditions	
Degree of protection	IP65
Ambient temperature (operation)	-20 °C 55 °C
tandards and regulations	
Standard designation	Low-voltage switchgear and controlgear assemblies - Part 2:

Power switchgear and controlgear assemblies

EN 61439-2

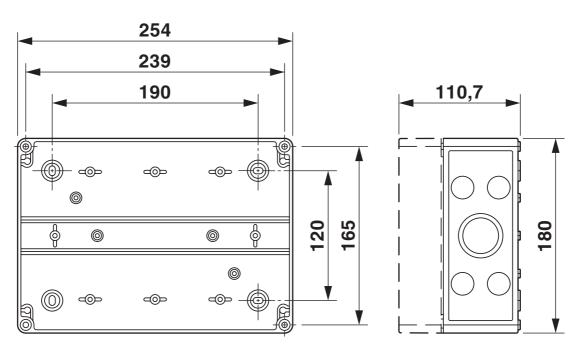


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### Drawings

### Dimensional drawing

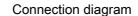


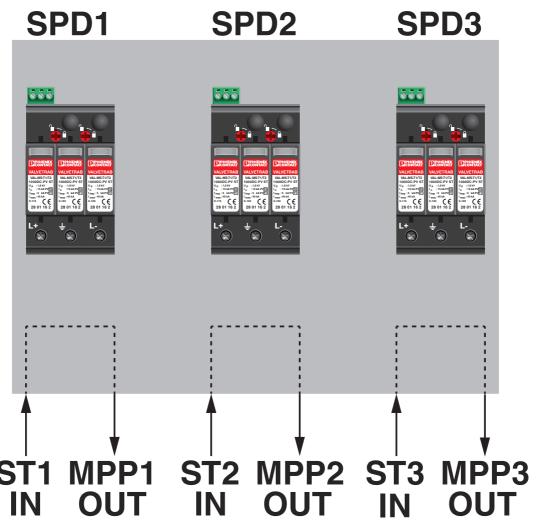
Housing dimensions



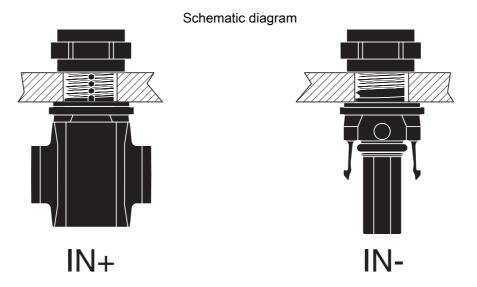
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Schematic application drawing

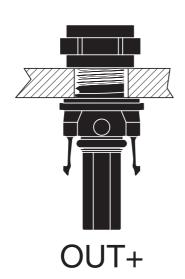


Connection of the PV strings

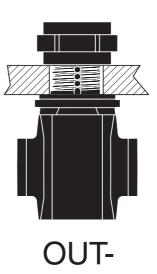


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Schematic diagram



Connection to the inverter



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### Schematic diagram





Connection of the protective grounding conductor



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### Schematic diagram



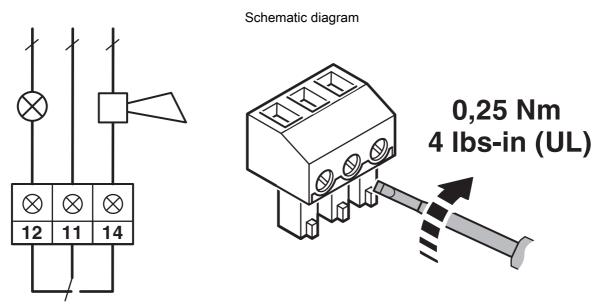


Connection of the protective equipotential bonding conductor



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Connection of the remote indication contact on the surge protection



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### Classifications

UNSPSC 21.0

ECLASS		
	ECLASS-13.0	27171490
ΕΊ	ГІМ	
	ETIM 9.0	EC003857
U	NSPSC	

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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