

2404299

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String combiner box for photovoltaic systems up to 1,000 V DC for connecting 2x 1 string. With surge protection (type 1/2) 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 PV 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 type key in the SCB packing slip, 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	2404299
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DTHTAA
GTIN	4055626396248
Weight per piece (including packing)	2,416.2 g
Weight per piece (excluding packing)	2,400 g
Country of origin	DE



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Technical data

Product properties

Product type	String combiner box (SCB)
Scope of delivery	SUNCLIX DC connector for connecting the 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. 40 A
Surge protection	
EN type	T1
IEC test classification	T1
Protection level U _p	≤ 3.5 kV
Total discharge current Ι _{total} (10/350) μs	5 kA
Total discharge current Ι _{total} (8/20) μs	40 kA
Short-circuit current rating I _{SCPV}	40 A
Input data	
20	
DC	
Number of inputs: Strings	1 (per MPP tracker)

Output data

Number of supported MPP trackers

DC	
Number of outputs: MPP tracker	2
Number of outputs: ±	1 (per MPP tracker)

2

Connection data

DC input		
Type of cable entry	SUNCLIX	
Cable cross section	2.5 mm ² 6 mm ²	
Protective bonding and protective grounding conductor		
Type of cable entry	Cable gland	
Connection method	Screw connection	
Cable cross section	2x 16 mm ²	
External cable diameter	2x 6 mm 12 mm	



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

Dimensions

Housing		
Width	180 mm	
Height	180 mm	
Depth	111 mm	

Material specifications

Material Housing	Polycarbonate
Material Cover/door	Polycarbonate (transparent)

Environmental and real-life conditions

Ambient conditions		
	Degree of protection	IP65
	Ambient temperature (operation)	-20 °C 55 °C



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Classifications

ECLASS

	ECLASS-11.0	27142422
	ECLASS-13.0	27171490
ETIM		
	ETIM 9.0	EC003857
UNSPSC		
	UNSPSC 21.0	39121100

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