

1056069

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String combiner box for photovoltaic systems up to 1,000 V DC for connecting 1x 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	1056069
Packing unit	1 pc
Minimum order quantity	25 pc
Note	Made to order (non-returnable)
Product key	DTHTBA
GTIN	4055626694092
Weight per piece (including packing)	5,000 g
Weight per piece (excluding packing)	5,000 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	
Design	DC switch disconnector	
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. 32 A

DC switch disconnector

Rated operating current DC-21B	32 A
Rated operating current DC-PV1	32 A
Rated operating current DC-PV2	32 A

Surge protection

5 1	
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}	32 A

Input data

DC

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

Output data

DC

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

Connection data

DC input

•	
Type of cable entry	SUNCLIX
Cable cross section	2.5 mm² 6 mm²



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Protective b	onding a	and prote	ective aro	undina	conductor

Type of cable entry	Cable gland
Connection method	Screw connection
Cable cross section	2x 16 mm²
External cable diameter	2x 6 mm 12 mm
DC output	
Type of cable entry	SUNCLIX
Cable cross section	2.5 mm² 6 mm²

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 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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Classifications

ECLASS

	ECLASS-11.0	27142422		
	ECLASS-13.0	27171490		
ETIM				
	ETIM 9.0	EC003857		
	LTIW 5.0	20000001		
UNSPSC				
	UNSPSC 21.0	39121100		

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