

String combiner box (SCB) - SOL-SC1-18ST-0-F-T2-SD-21 - 1053602

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



String combiner box for photovoltaic systems up to 1,000 V DC for the connection of up to 18 strings. With two-sided fuse protection via fuse holder, DC isolators, and type 2 surge protection. Cable entry via multiple cable gland. Including 15 A fuse-links.

Product Description


The Solarline string combiner boxes (SCBs) are used in both small rooftop systems and large ground-mounted systems. Their functions include collecting and protecting strings and, if necessary, separating the panels from the rest of the system by means of a switch disconnecter or fire service switch disconnecter.

Your advantages

- ✓ Large portfolio of string combiner boxes in stock
- ✓ Application-oriented analysis and consultation
- ✓ Use of the best connection technologies and suitable components
- ✓ Durable and error-free operation, thanks to comprehensively tested solutions
- ✓ Optimum positioning of surge protection
- ✓ Standard-compliant switchgear and controlgear assembly, thanks to use of DIN EN 61439



Key Commercial Data

Packing unit	1
GTIN	 4 055626 678948
GTIN	4055626678948
Custom tariff number	85363090

Technical data

System parameter

System voltage	1000 V DC (U_{max})
Number of string inputs	18

String combiner box (SCB) - SOL-SC1-18ST-0-F-T2-SD-21 - 1053602

Technical data

System parameter

Current per string (typical)	9 A (I_{nc})
Current per string (max.)	12.5 A (I_{max} , with limited temperature range)
Number of outputs	1 (per MPP tracker)
Number of supported MPP trackers	(not relevant)
Switching capacity	250 A

Safety equipment

String fuse	10:3 x 38 mm (in scope of delivery)
-------------	-------------------------------------

Cable entry

Type of cable entry	Cable gland
Cable cross section string input	4 mm ² ... 6 mm ²
Sealing area string input	5 mm ... 7 mm
Cable cross section output	120 mm ²
Sealing area output	16 mm ... 28 mm
Cable cross section grounding	6 mm ²
Sealing area grounding	6 mm ... 13 mm
Bolt diameter output (cable lug)	10 mm

General data

Housing material	Fiberglass-reinforced plastic
Weight	16500 g
Installation location	Outdoor installation, roofed area, no direct sunlight
Degree of protection	IP65
Protection class	II
Impact strength	IK10

Dimensions

Outer dimensions: width, height, depth	500 mm x 600 mm x 230 mm (Housing dimensions)
--	---

Ambient conditions

Ambient temperature (operation)	-20 °C ... 45 °C
---------------------------------	------------------

Standards and Regulations

Standards/specifications	IEC 61439-2
--------------------------	-------------

Classifications

eCl@ss

eCl@ss 10.0.1	27142422
---------------	----------

String combiner box (SCB) - SOL-SC1-18ST-0-F-T2-SD-21 - 1053602

Classifications

eCl@ss

eCl@ss 11.0	27142422
eCl@ss 5.1	27371890
eCl@ss 7.0	27142422
eCl@ss 9.0	27142422

ETIM

ETIM 4.0	EC000816
ETIM 6.0	EC000268
ETIM 7.0	EC000268