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String combiner box for photovoltaic systems up to 1000 V DC for the connection of 1x 1 string. With surge protection and SUNCLIX DC connector for the input and output side.

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 disconnector or fire service switch disconnector.

Your advantages

- Fast installation and startup
- ☑ Large portfolio of string combiner boxes in stock
- ☑ Application-oriented consultation
- Standard-compliant switchgear and controlgear assembly, thanks to use of DIN EN 61439

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 370521
GTIN	4055626370521
Weight per Piece (excluding packing)	1,100.000 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

System parameter

System voltage	1000 V DC (U _{max})
Number of string inputs	1
Current per string (max.)	40 A (I _{max})
Number of outputs	1 (per MPP tracker)
Number of supported MPP trackers	1



Technical data

Safety equipment

Surge protective device	T2
Protection level U _p	≤ 3.7 kV
Total discharge current Ι _{total} (8/20) μs	40 kA

Cable entry

Type of cable entry	SUNCLIX
Cable cross section string input	2.5 mm ² 6 mm ²
Cable cross section output	2.5 mm ² 6 mm ²
Cable cross section grounding	16 mm² (2x)
Sealing area grounding	6 mm 12 mm (2x)

General data

Material cover/door	Polycarbonate (transparent)
Housing material	Polycarbonate
Degree of protection	IP65
Protection class	П

Dimensions

Outer dimensions: width, height, depth	130 mm x 180 mm x 111 mm (Housing dimensions)
Ambient conditions	

Ambient temperature (operation)	-20 °C 55 °C
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Drawings



Schematic diagram





Connection of the protective grounding conductor

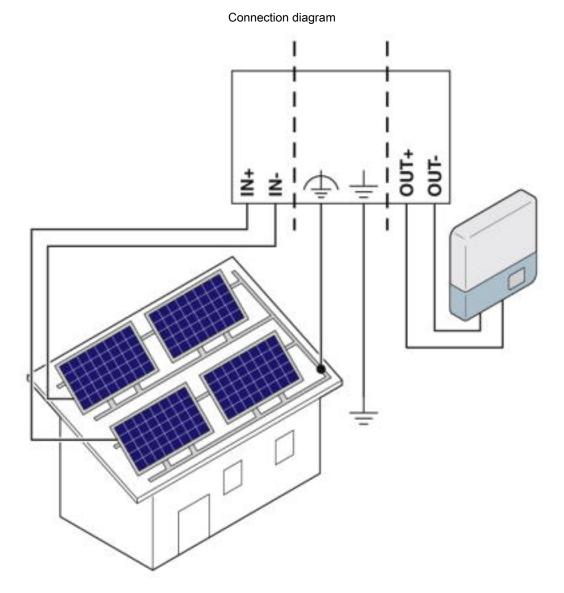
Schematic diagram



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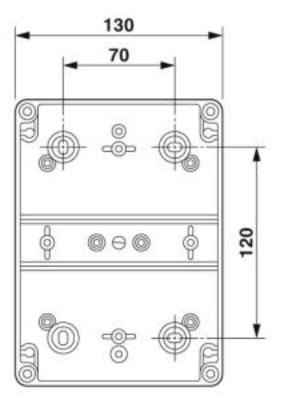
Connection of the protective equipotential bonding conductor





Schematic application drawing





Housing dimensions

Dimensional drawing



Connection of the remote indication contact on the surge protection

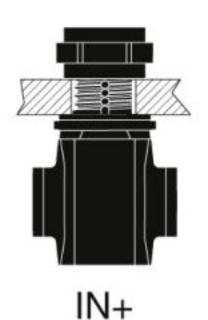
Circuit diagram





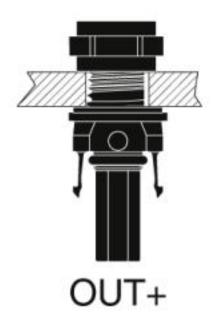
Schematic diagram

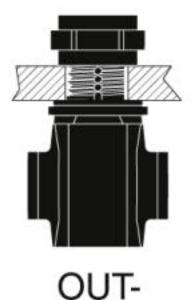
Schematic diagram



IN-

Connection of the PV string





Connection to the inverter

Classifications

eCl@ss

eCl@ss 10.0.1 27142422



Classifications

eCl@ss

eCl@ss 5.1	27371890
eCl@ss 7.0	27142422
eCl@ss 8.0	27142422
eCl@ss 9.0	27142422

ETIM

ETIM 4.0	EC000816
ETIM 5.0	EC000268
ETIM 6.0	EC000268
ETIM 7.0	EC000268

Accessories

Accessories

Photovoltaic connector

Protective cap - PV-C PROTECTION CAP - 1785430

Photovoltaic connector, Range of articles: PV-JB TF, Protective cap, color: black, number of positions: 1



Photovoltaic Y-distributor - PV-ED6/Y-120(2+/1-) - 1030649



Photovoltaic connector, Photovoltaic Y-distributor, housing material: PPE, color: black. Assembled with SUNCLIX - 1x male (minus) - 2x female (plus); length of single cable 0.12 m, varying number of nodes and customer-specific cable lengths are available on request.

Photovoltaic Y-distributor - PV-ED6/Y-120(1+/2-) - 1030650



Photovoltaic connector, Photovoltaic Y-distributor, housing material: PPE, color: black. Assembled with SUNCLIX - 1x female (plus) - 2x male (minus); length of single cable 0.12 m, varying number of nodes and customer-specific cable lengths are available on request.



Accessories

Connector - PV-CF-S 2,5-6 (+) - 1774674



Photovoltaic connector, Range of articles: PV-CF-S, Connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 2.5 mm², max. conductor cross section: 6 mm², rated current: 27 A, Connection method: Spring-cage, Type of contact: Socket. can only be released using a tool

Connector - PV-CM-S 2,5-6 (-) - 1774687



Photovoltaic connector, Range of articles: PV-CM-S, Connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 2.5 mm², max. conductor cross section: 6 mm², rated current: 27 A, Connection method: Spring-cage, Type of contact: Pin. can only be released using a tool

Connector - PV-CF-S 6-16 (+) - 1790784



Photovoltaic connector, Range of articles: PV-CF-S, Connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 6 mm², max. conductor cross section: 16 mm², rated current: 40 A, Connection method: Spring-cage, Type of contact: Socket. can only be released using a tool

Connector - PV-CM-S 6-16 (-) - 1790797



Photovoltaic connector, Range of articles: PV-CM-S, Connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 6 mm², max. conductor cross section: 16 mm², rated current: 40 A, Connection method: Spring-cage, Type of contact: Pin. can only be released using a tool

Photovoltaic adapter set - PV-AS-MC4/6-150-MN-SET1 - 1079531

Photovoltaic connector, Photovoltaic adapter set, type: Adapter, color: black, rated current: 35 A, cable length: 150. Adapter pair (+- / -+), assembled with SUNCLIX - 1 x pin (minus) and MC4 - 1 x socket (plus) or with SUNCLIX - 1 x socket (plus) and MC4 - 1 x pin (minus), free cable length: 0.15 m, cable type: multi-standard (UL/PV1-F), customer-specific cable length available on request

Replacement plug



Accessories

Type 2 surge protection plug - VAL-MS 1000DC-PV-ST - 2800624



Replacement plug for PV arrester combinations from the VAL-MS 1000DC-PV-... product range

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