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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

- Application-oriented consultation



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 370521
GTIN	4055626370521

Technical data

System parameter

Open-circuit voltage (U _{oc})	max. 1100 V DC
MPP voltage (U _n)	max. 1000 V DC
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

Safety equipment

Surge protective device	T2



Technical data

Safety equipment

Protection level U _p	≤ 3.7 kV
Total discharge current I _{total} (8/20) μs	40 kA

Cable entry

Type of cable entry	SUNCLIX
Cable cross section string input	2.5 mm² 6 mm²
Cable cross section output	2.5 mm² 6 mm²
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
Weight	1100 g
Degree of protection	IP65
Protection class	II

Dimensions

Outer dimensions: width, height, depth	130 mm x 180 mm x 111 mm (Housing dimensions)
Outer dimensions, width, height, depth	130 min x 100 min x 111 min (nousing dimensions)

Ambient conditions

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

Drawings

Schematic diagram



Connection of the protective grounding conductor

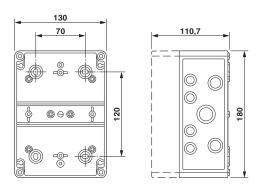
Schematic diagram



Connection of the protective equipotential bonding conductor



Dimensional drawing



Schematic diagram





Connection of the PV string

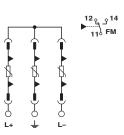
Housing dimensions

Schematic diagram





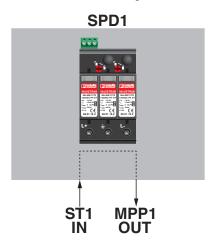
Circuit diagram



Connection to the inverter

Connection of the remote indication contact on the surge protection

Connection diagram



Schematic application drawing

Classifications

eCl@ss

eCl@ss 10.0.1	27142422



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

UNSPSC

UNSPSC 18.0	39121116
UNSPSC 19.0	39121116
UNSPSC 20.0	39121116
UNSPSC 21.0	39121116

Accessories

Accessories

Photovoltaic connector

Protective cap - PV-C PROTECTION CAP - 1785430



Photovoltaic connector, Range of articles: Sunclix, Protective cap, color: black. self-sealing, without interlock, set consisting of: 1 protective cap for connector side and 1 protective cap for coupling side

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

Photovoltaic connector, Range of articles: Sunclix, Photovoltaic Y-distributor, housing material: PPE, color: black



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

Photovoltaic connector, Range of articles: Sunclix, Photovoltaic Y-distributor, housing material: PPE, color: black





Accessories

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



Photovoltaic connector, Range of articles: Sunclix, Connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 2.5 mm², max. conductor cross section: 6 mm², rated voltage: 1100 V DC, rated current: 40 A, Connection method: Spring-cage, Type of contact: Socket, min. cable diameter: 5.5 mm, max. cable diameter: 8 mm

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



Photovoltaic connector, Range of articles: Sunclix, Connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 2.5 mm², max. conductor cross section: 6 mm², rated voltage: 1100 V DC, rated current: 40 A, Connection method: Spring-cage, Type of contact: Pin, min. cable diameter: 5.5 mm, max. cable diameter: 8 mm

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



Photovoltaic connector, Range of articles: Sunclix, Connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 6 mm², max. conductor cross section: 16 mm², rated voltage: 1500 V DC, rated current: 40 A, Connection method: Spring-cage, Type of contact: Socket, min. cable diameter: 5.5 mm, max. cable diameter: 10 mm

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



Photovoltaic connector, Range of articles: Sunclix, Connector, housing material: PPE, color: black, number of positions: 1, min. conductor cross section: 6 mm², max. conductor cross section: 16 mm², rated voltage: 1500 V DC, rated current: 40 A, Connection method: Spring-cage, Type of contact: Pin, min. cable diameter: 5.5 mm, max. cable diameter: 10 mm

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



Photovoltaic connector, Range of articles: Sunclix, Photovoltaic adapter set, type: Adapter, housing material: PPE, color: black, rated current: 35 A, cable length: 150. Connect these connectors only to other connectors of the same type made by the same manufacturer. When making the connections, always observe the specifications regarding nominal voltage and nominal current. The smallest common value is permissible.

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

Tool set

Tool set - TOOL-KIT SOLAR - 1212071



Tool case, equipped with: crimping pliers, pressing dies for MC3, MC4 and SOLARLOK connectors, stripping tool for commercially available solar cables, stripping tool for SUNCLIX, VDE cable cutter, VDE screwdriver: PH1, PH2, 0.6x3.5 and 0.8x4.0 slots.

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