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String combiner box for photovoltaic systems up to 1000 V DC for the connection of 3x 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
GTIN	4 055626 932323
GTIN	4055626932323
Custom tariff number	85363030

Technical data

System parameter

No-load voltage (U _{oc})	max. 1100 V DC
MPP voltage (U _n)	max. 1000 V DC
Number of string inputs	1 (per MPP tracker)
Current per string (max.)	40 A (I _{max})



Technical data

System parameter

Number of outputs	1 (per MPP tracker)
Number of supported MPP trackers	3

Safety equipment

Surge protective device	T1 / T2
Protection level U _p	≤ 3.5 kV
Total discharge current I _{total} (8/20) µs	40 kA
Total discharge current I _{total} (10/350) μs	5 kA

Cable entry

Type of cable entry	SUNCLIX
Cable cross section string input	6 mm² 16 mm²
Cable cross section output	6 mm² 16 mm²
Cable cross section grounding	16 mm²
Sealing area grounding	6 mm 12 mm

General data

Material cover/door	Polycarbonate (transparent)
Housing material	Polycarbonate
Weight	6000 g
Degree of protection	IP65
Protection class	II

Dimensions

Outer dimensions: width, height, depth	361 mm x 254 mm x 111 mm (Housing dimensions)
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Ambient conditions

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

Drawings

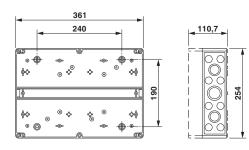


Schematic diagram



Connection of the protective grounding conductor

Dimensional drawing



Housing dimensions

Schematic diagram





Connection to the inverter

Schematic diagram



Connection of the protective equipotential bonding conductor

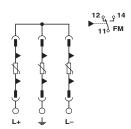
Schematic diagram





Connection of the PV strings

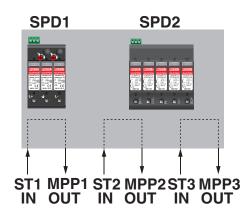
Circuit diagram



Connection of the remote indication contact on the surge protection



Connection diagram



Schematic application drawing

Classifications

eCl@ss

eCl@ss 10.0.1	27142422
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

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