# Solarline string combiner box SOL-SC-2ST-0-DC-4MPPT-2005SE

Order-No. 1197150

Data sheet 109516\_en\_00

© PHOENIX CONTACT 2020-03-19

#### 1 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 fire service or switch disconnectors.

#### 2 Features

String combiner box for photovoltaic systems up to 1000V DC for the connection of  $4 \times 2$  strings.

With surge protection (type 2) and cable glands for the input and output side.



## 3 Technical data

1000 V DC (U <sub>max</sub> )
2 (per MPP tracker)
20.5 A (I <sub>max</sub> )
1 (per MPP tracker)
4
T2
≤ 3.7 kV
40 kA
Cable gland
4 mm <sup>2</sup> 6 mm <sup>2</sup>
5 mm 10 mm
4 mm <sup>2</sup> 16 mm <sup>2</sup>
5 mm 10 mm
16 mm <sup>2</sup> (2 x)
6 mm 12 mm (2 x)
Polycarbonate
Polycarbonate (transparent)
IP65
II
508
180
111
Housing dimensions

### 4 Documentation

Ambient temperature (operation)

Type/description	Designation	Order No.
Package Slip for SOL-SC-xST-0-ACDC-xMPPT-xxx0	PACKB SOL-SC-xST-0-AC/DC-xMPPT-xxx0	107714



Important: Read the instruction manual carefully before mounting, installing, and starting up the Solarline string combiner box. Pay particular attention to the safety notes in this document.

-20°C ... 55°C



For additional information about the Solarline products, visit phoenixcontact.com.

109516\_en\_00 PHOENIX CONTACT 2 / 3

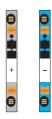
## 5 Drawings



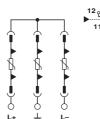
Connection of the protective grounding conductor



Connection of the protective equipotential bonding conductor



Connection of the PV strings, as well as connection to the inverter



Connection of the remote indication contact on the surge protection

