

INDUSTRIAL COMPONENT DATA

SOL-SC-1ST-0-DC-2MPPT-1001 2404299 PHOENIX CONTACT

String combiner box (SCB)

Brand: PHOENIX CONTACT | Manufacturer Part Number: SOL-SC-1ST-0-DC-2MPPT-1001



Manufacturer	PHOENIX CONTACT
MPN / Reference	SOL-SC-1ST-0-DC-2MPPT-1001
Catalog number	2404299
Category	Photovoltaic DC Stringbox
Minimum order	1 Pcs
Document ID	EO-F94C6FF144
Generated	2026-08-05

Product Overview

String combiner box (SCB)

String box for photovoltaic installations up to 1000 V DC for the connection of 2x 1 string. With surge protection (type 1/2) and SUNCLIX DC connectors for the input and output side (SUNCLIX coupling connector included in the scope of delivery). Generator junction box for photovoltaic systems up to 1000 V DC for connecting 2x 1 string. With surge protection (type 1/2) and SUNCLIX DC connectors for the input and output side (SUNCLIX mating plugs included).

STRUCTURED PRODUCT DATA

Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

Classification & Catalog Path

Catalog path PHOENIX CONTACT > Industry Solutions (IS)

Additional Product Information

Key Commercial Data

Orderkey 2404299

Packing unit 1 pc

GTIN 4055626396248

Weight per Piece (excluding packing) 2,300.000 g

Custom tariff number 85363030

Country of origin DE (Germany)

System parameter

System voltage 1000 V DC (Umax)

Number of string inputs 1 (per MPP tracker)

Current per string (max.) 40 A (Imax)

Number of outputs 1 (per MPP tracker)

Number of supported MPP trackers 2

Safety equipment

Surge protective device T1 / T2

Protection level Up ≤ 3.5 kV

Total discharge current Itotal(8/20) μs 40 kA

Total discharge current Itotal(10/350) μs 5 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)

Degree of protection IP65

Protection class II

Dimensions

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

Ambient conditions

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

Classifications

eCl@ss 10.0.127142422eCl@ss 5.127371890eCl@ss 7.027142422eCl@ss 8.027142422eCl@ss 9.027142422

ETIM 4.0EC000816ETIM 5.0EC000268ETIM 6.0EC000268ETIM 7.0EC000268

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / SOL-SC-1ST-0-DC-2MPPT-1001 with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

Catalog-generated document. Product names, marks and specifications belong to their respective owners. Verify safety-critical, compatibility and certification requirements against the manufacturer documentation before purchase or installation.