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-34047B2A68
Generated	2026-11-18

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.