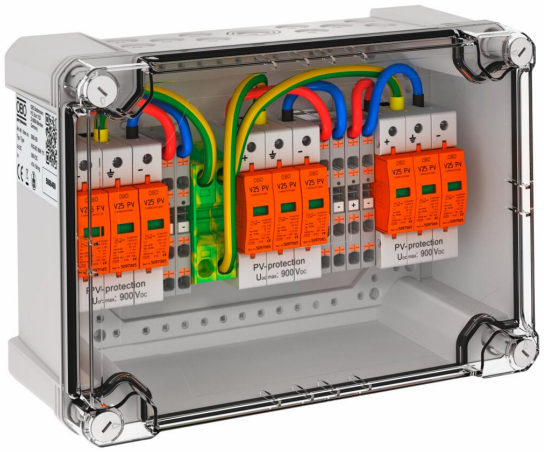
Technical data sheet

Generator connection box, type 1+2 for 3x 2 PV string

Item number: 5088460



Generator connection box, type 1+2, for photovoltaic systems, to connect 3 x 2 string. For DC protection of the inverter.

- Varistor conductor, pluggable, with cut-off unit in error-resistant Y circuit to VDE 0100-712 (50530-12)
- Low DC protection level: < 3.0 kV (Uoc max = 900 V DC)
- 3 protection devices with 3 push-in terminals to 6 mm² pre-installed in the housing, to 41 A DC per terminal
- Polycarbonate housing (IP67), UV-resistant for the use outdoors, cable gland set and pressure balance plug included

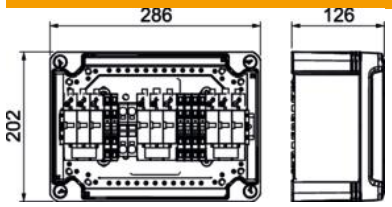
If there is a danger of condensation forming through wind, ice, temperature or sunlight, further measures may be necessary!

Type 1+2 LPZ 0→2

Master data

Item number	5088460
Type	PVG-BC 900K 222
Description 1	Combiner Box
Description 2	3x2 PV string to 3 WR-MPP
Manufacturer	OBO
Dimension	900V DC
Smallest sales unit	1
Unit of quantity	Piece
Weight	267 kg
Weight unit	kg/100 pc.
CO2 Footprint (GWP) Cradle-to-Gate	8,4583 kg CO2e / 1 Piece

Dimensions



Width	286 mm
Height	202 mm

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Technical data

Response time	<25 ns
Number of inputs	2
Type of entry	Gland
Version for	For 3 MPPT and with push-in terminal
Operating temperature, max.	60 °C
Operating temperature, min.	-25 °C
Lightning surge current (10/350 µs)	7 kA
Suitable for outdoor use	yes
Housing material surge protection components	PC
Maximum continuous voltage DC	900 V
Conductor cross-section, flexible (fine-wire), max.	6 mm²
Conductor cross-section, flexible (fine-wire), max.	10 AWG
Conductor cross-section, flexible (fine-wire), min.	21 AWG
Conductor cross-section, flexible (fine-wire), min.	0.5 mm²
Conductor cross-section, rigid (single-wire/multiwire), max.	8 AWG
Conductor cross-section, rigid (single-wire/multiwire), max.	10 mm²
Conductor cross-section, rigid (single-wire/multiwire), min.	21 AWG
Conductor cross-section, rigid (single-wire/multiwire), min.	0.5 mm²
Lightning protection zone LPZ	0→2
Maximum discharge current (8/20 µs)	50 kA
Installation type	Pre-mounted in the housing
Nominal discharge current (8/20 µs)	30 kA
Network form	DC
DC network form	yes
Test class, type 2	yes
Protection rating	IP67
Protection rating IK code	IK08
Protection level	≤3 kV
Signalling on device	Visual
SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-11	Class II
Permitted temperature range, max.	60 °C
Permitted temperature range, min.	-25 °C
Depth	126 mm
Number of cable entries	19
Max. Input voltage DC	900 V
String fuse	Without
Monitoring function	no
Max. Input current per string	41 A
Max. Output current	41 A
Number of string inputs	2
Equipped with load-break switch	no

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Anschlussart Generatoran-schlusskasten	Push-in terminal
Number of MPPTs	3
Entries per MPPT	2
Exits per MPPT	1