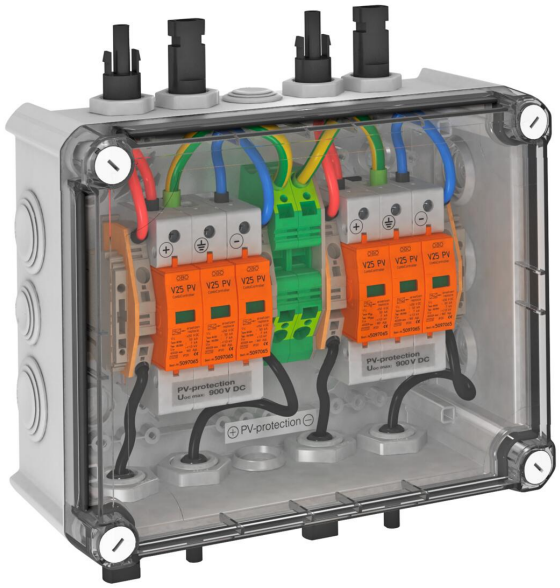
Technical data sheet

Generator connection box, type 1+2, with MC4 connector for 2 x 1 string
Item number: 5088565



System solution, type 1+2, with MC4 connector for photovoltaic inverter with 2 separate MPP trackers

• Varistor arrester, connectable with cut-off unit in error-resistant Y circuit to VDE 0100-712 (50539-12)
• Type 1+2 combination arrester for lightning protection equipotential bonding to EN 62305 (VDE 0185-305)
• Low DC voltage protection level: < 3.0 kV (Voc max = 900V DC with V25-B+C/ 0-450PV)
• One PV string input (MC4 plug connector) at one MPP inverter input, up to 30A DC per terminal
• Pre-mounted in polycarbonate housing (IP66), UV-resistant for use outside

For DC protection of the inverter of photovoltaic systems.

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

Type 2 LPZ 1→2

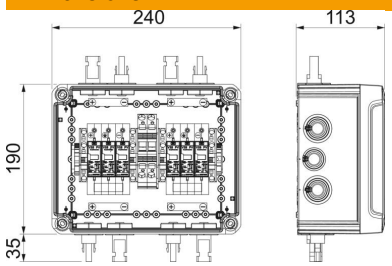
Master data

Item number	5088565
Type	VG-BC900S11
Description 1	Combiner box
Description 2	2x1 PV string to 2 WR-MPP+MC4
Manufacturer	OBO
Dimension	900V DC
Colour	Light grey; RAL 7035
Smallest sales unit	1
Unit of quantity	Piece
Weight	199 kg
Weight unit	kg/100 pc.
CO2 Footprint (GWP) Cradle-to-Gate	5,8524 kg CO2e / 1 Piece

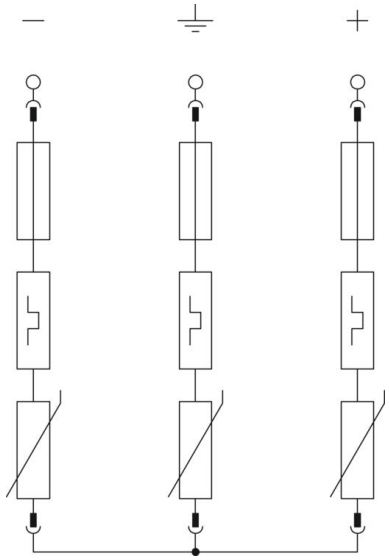
Technical data sheet

Generator connection box, type 1+2, with MC4 connector for 2 x 1 string
Item number: 5088565

Dimensions



Technical data

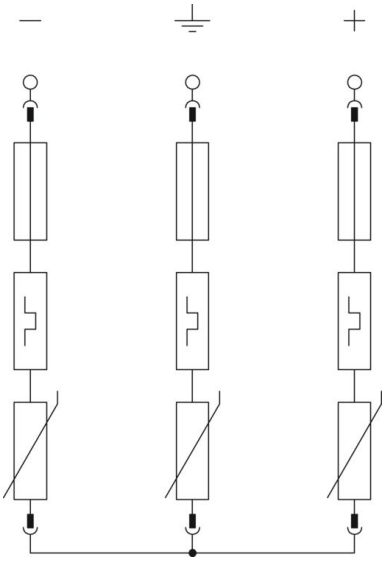


Arrester surge current (8/20 µs) [total]	60 kA
Response time	<25 ns
Number of inputs	1
Type of entry	MC4
Blow-out	no
Version for	For two MPPs and with MC4 connection
Structural width in division units (division unit, 17.5 mm)	Miscellaneous
Operating temperature, max.	80 °C
Operating temperature, min.	-40 °C
Lightning surge current (10/350 µs)	7 kA
Remote signalling	no
Maximum continuous voltage DC	900 V
Conductor cross-section, rigid (single-wire/multiwire), max.	35 mm²
Lightning protection zone LPZ	0→2
Max. PV voltage	900 V
Maximum discharge current (8/20 µs)	50 kA
Installation type	Pre-mounted in the housing
Nominal discharge current (8/20 µs)	30 kA
Nominal discharge current (8/20 µs) [L-N]	30 kA
Network form	DC
DC network form	yes
IT network form	no
Other network form	no
TN network form	no
TN-C network form	no
TN-C-S network form	no
TN-S network form	no
TT network form	no
Pole number	3
Test class, type 1	yes
Test class, type 2	yes
ROHS-conformant	yes
Protection rating	IP66
Protection level	≤3,0 kV
Signalling on device	Visual

Technical data sheet

Generator connection box, type 1+2, with MC4 connector for 2 x 1 string
Item number: 5088565

Technical data



SPD to EN 61643-11	Type 1+2
SPD to IEC 61643-11	Class I+II
Permitted temperature range, max.	80 °C
Permitted temperature range, min.	-40 °C
Depth	113 mm
Number of cable entries	8
Max. Input voltage DC	900 V
String fuse	Without
Monitoring function	no
Max. Input current per string	30 A
Max. Output current	30 A
Number of string inputs	1
Equipped with load-break switch	no
Anschlussart Generatoran-schlusskasten	MC4
Number of MPPTs	2
Entries per MPPT	1
Exits per MPPT	1