

Technical data sheet

Generator connection box, type 2, up to 1,000 V DC with disconnection switch (32 A) for 1 x 1 string
Item number: 5088660



System solution for circuit breaker photovoltaic inverter with 1 MPP tracker

- Varistor arrester, connectable with cut-off unit in error-resistant Y circuit to VDE 0100-712 (50539-12)
- Low DC protection level: < 4.0 kV (Voc max = 1,000 V DC with V2 β -B+C/0-500PV)
- Circuit breaker (1,000 V; 32 A) for secure switch-off of the DC string cable
- Per protection device, there is 1 terminal up to 6 mm² pre-mounted in the housing, up to 30 A DC per terminal
- Pre-mounted in polycarbonate housing (IP65), UV-resistant for use outside, including cable gland kit

For DC protection of the inverter in photovoltaic systems.

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



Master data

Item number	5088660
Type	VG-C DC-TS1000
Description 1	Combiner box
Description 2	2 PV string w. circuit breaker
Manufacturer	OBO
Dimension	1000V DC
Colour	Light grey; RAL 7035
Smallest sales unit	1
Unit of quantity	Piece
Weight	182.5 kg
Weight unit	kg/100 pc.

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Dimensions

Width	250 mm
Height	200 mm

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Response time	<25 ns
Number of inputs	1
Type of entry	Gland
Version for	Type 2 and BenediktLS32-SMA-A4 DC isolator
Operating temperature, max.	80 °C
Operating temperature, min.	-40 °C
Remote signalling	no
Housing material surge protection components	PC
Maximum continuous voltage DC	1000
Conductor cross-section, rigid (single-wire/multiwire), max.	6 mm ²
Conductor cross-section, rigid (single-wire/multiwire), min.	0.5 mm ²
Lightning protection zone LPZ	1→2
Maximum discharge current (8/20 µs)	40 kA
Installation type	Pre-mounted in the housing
Nominal discharge current (8/20 µs)	20 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
Test class, type 1	no
Test class, type 2	yes
Test class, type 3	no
Protection rating	IP65
Protection rating IK code	IK07.
Protection level	≤4,0
Signalling on device	Visual
SPD to EN 61643-11	Type 2
SPD to IEC 61643-1	Class II

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Permitted temperature range, max.	40 °C
Permitted temperature range, min.	-25 °C
Depth	122 mm
Cable type for surge protection devices	Power cable DC (PV)
Number of cable entries	16
Max. Input voltage DC	1000 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	yes
Anschlussart Generatoranschlusskasten	Tension spring terminal
Number of MPPTs	1
Entries per MPPT	1
Exits per MPPT	1