

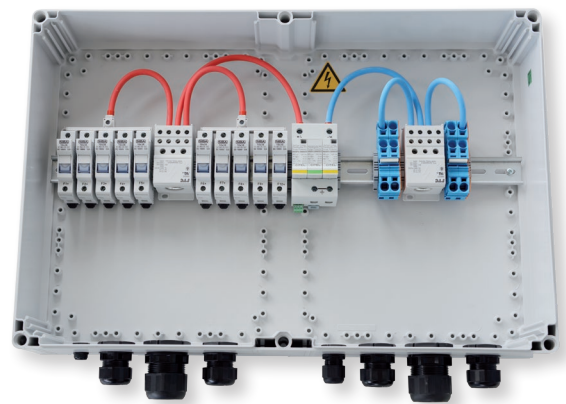
DC COMBINERBOX

Collect safely in the field

- Made in Germany
- Cost-optimized
- Customized options

Besides our REFUsol inverters there may be additional components necessary or usefull in a PV plant. You can choose these from our extensive accessory portfolio. Profit from cost-optimized products that are pefectly matched to your plants thanks to a wide variety and individual configuration options. Rely on proven quality "Made in Germany".

The CombinerBox allows the string collection near the solar modules, in order to connect the inverter with an efficient homerun in aluminum or copper. Hereby both – a decentralized as well as a centralized – installation of the string inverters is possible.



DC COMBINERBOX 1,000 VDC

	CombinerBox 10-1, P	CombinerBox 10-1, P, SPDII	CombinerBox 10-1, PM
Art. No. (single shipment)	925001	925002	925003
Art. No. (Paletts shipment)	925011	925012	925013
Description	with Plus Fuses	with Plus Fuses and SPD II	with Plus and Minus Fuses

INPUT

Rated voltage	1,000 VDC		
Rated insulation voltage	1,000 VDC		
Max. Current	10 A per Input		
Plus Connection	10 × Fuseholder 2.5... 16 mm ²	10 × Fuseholder 2.5... 16 mm ²	10 × Fuseholder 2.5... 16 mm ²²
Minus Connection	10 × Spring Terminal 2.5... 16 mm ²	10 × Spring Terminal 2.5... 16 mm ²	10 × Spring Terminal 2.5... 16 mm ²
Cable Glands	4 × M32 with multiple seals for 5 cable (OD 5... 7 mm)		

OUTPUT

Max. Current	100 A		
Plus and Minus Connection	2 × Distribution block 35... 120 mm ² Cu/Al	2 × Distribution block 35... 120 mm ² Cu/Al	2 × Distribution block 35... 120 mm ² Cu/Al
Minus Connection	2 × M40 (Outer Diameter: 16... 28 mm) 2 × Reducing seal element (Outer Diameter: 12... 20 mm) with 2 × Blind plugs 7 mm		

PROTECTION FEATURES

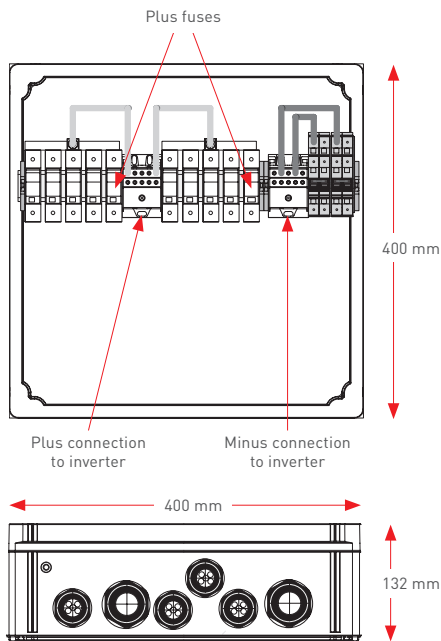
DC Overvoltage Protection	-	SPD Type 2 DS50PVS- 1000G/51	-
Grounding Connection	only for SPD: Direct connection to SPD with ferrule max. 25 mm ² , without ferrule: max. 35 mm ²		
Grounding Cable Glands	only for SPD: 1 × M20 (Outer Diameter: 6... 13 mm)		
DC Load Breaker	-	-	-

ENCLOSURE

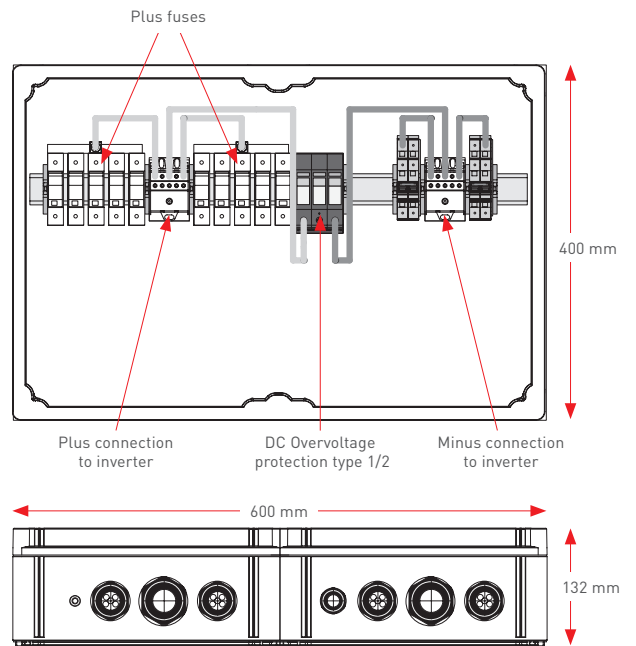
Dimensions (H × W × D, mm)	400 × 400 × 132	400 × 600 × 132	400 × 600 × 132
Weight (kg)	4.5	7.0	7.0
Material	Reinforced polycarbonate		
Colour	grey		
Protection Class	II		
IP Class	IP65, UV resistant		
Protective Vent	yes		
Brackets	Brackets included, stainless steel		
Fuses	PV-Fuses 10 × 38 mm 1,000 V DC not included, order separately: 922013: PV Fuse 10 × 38 mm 1,000 V DC 15A – Order multiple of 10 (Packing Unit) 922017: PV Fuse 10 × 38 mm 1,000 V DC 16A – Order multiple of 10 (Packing Unit)		

CombinerBox 10-1, PM, SPDII	CombinerBox 10-1, PM, SPDI+II	CombinerBox 10-1, PM, SPDI+II, DCS	CombinerBox 10-1, PM, SPDII, DCS, MC4
925004 925014	925005 925015	925010 925020	925009 925019
with Plus and Minus Fuses and SPD II	with Plus and Minus Fuses and SPD I+II	with Plus and Minus Fuses and SPD I+II, DC Load Breaker	with Plus and Minus Fuses and SPD I+II, DC Load Breaker, MC4
1,000 VDC			
1,000 VDC			
10 A per Input			
10×Fuseholder 2.5... 16 mm ²	10×Fuseholder 2.5... 16 mm ²	10×Fuseholder 2.5... 16 mm ²	Stäubli MC4 Plus
10×Spring Terminal 2.5... 16 mm ²	10×Spring Terminal 2.5... 16 mm ²	10×Spring Terminal 2.5... 16 mm ²	Stäubli MC4 Minus
4× M32 with multiple seals for 5 cable (OD 5... 7 mm)			-
100 A			
2×Distribution block 35... 120 mm ² Cu/Al	2×Distribution block 35... 120 mm ² Cu/Al	2×Cable Lug M8/ Directly connect to Load	2×Cable Lug M8/ Directly connect to Load
2× M40 (Outer Diameter: 16... 28 mm) 2× Reducing seal element (Outer Diameter: 12... 20 mm) with 2× Blind plugs 7 mm			
SPD Type 2 DS50PVS- 1,000G/51	SPD Type 1/2 - VALMS- T1/T2 1,000DCPV/2+V	SPD Type 1/2 - VALMS- T1/T2 1,000DCPV/2+V	SPD Type 2 DS50PVS- 1,000G/51
only for SPD: Direct connection to SPD with ferrule max. 25 mm ² , without ferrule: max. 35 mm ²		connected to grounding-clamp up to 16 mm ²	connected to grounding-clamp up to 16 mm ²
only for SPD: 1× M20 (Outer Diameter: 6... 13 mm)			
-	-	DC load breaker 160A; OTDC160E11K (handle outside)	DC load breaker 160A; OTDC160E11K (handle outside)
400×600×132	400×600×132	745×535×300	745×535×300
7.8	7.8	11.4	11.4
Reinforced polycarbonate			
grey			
II			
IP65, UV resistant			
yes			
Brackets included, stainless steel			
PV-Fuses 10×38 mm 1,000 V DC not included , order separately: 922013: PV Fuse 10×38 mm 1,000 V DC 15A – Order multiple of 10 (Packing Unit) 922017: PV Fuse 10×38 mm 1,000 V DC 16A – Order multiple of 10 (Packing Unit)			

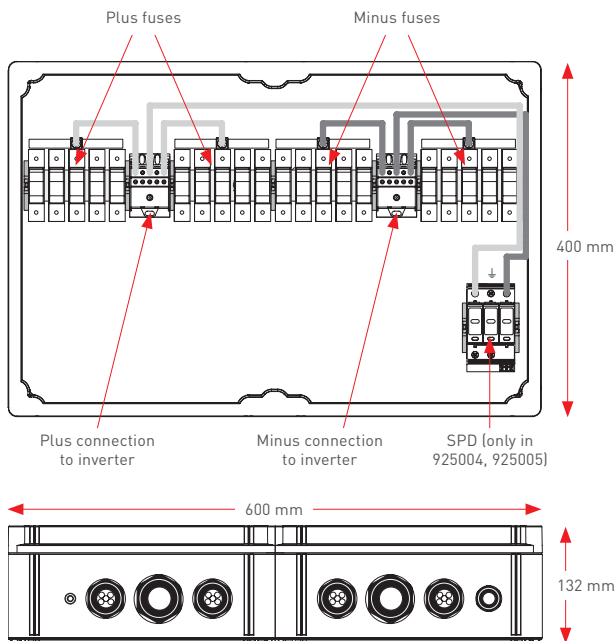
925001
COMBINERBOX 10-1, P



925002
COMBINERBOX 10-1, P, SPD II



925004, 925005, (925003)
COMBINERBOX 10-1, PM, (SPD)



925010, (925009)
COMBINERBOX 10-1, PM, SPD, (MC4)

