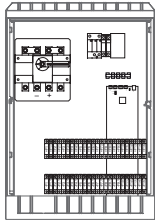
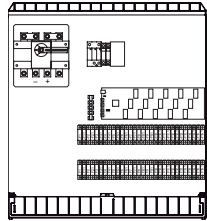


String Combiner Box

- 24 to 30 inputs
- Switch disconnector
- DC surge voltage protector
- Connection of a temperature sensor possible
- Connection of an irradiation or wind speed sensor possible



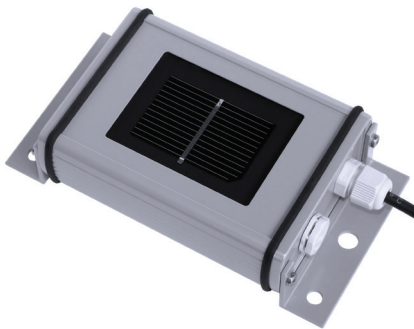
Technical data

Designation	String Combiner Box	
Housing type	2	4
Housing material	glass fibre reinforced plastic	glass fibre reinforced plastic
Figure		
Number of inputs	24	30
Number of measuring channels	max. 15 ¹⁾	
Max. current per input (I _{dc max, in})	16 A	
Max. output current (I _{dc max, out})	250 A / 315 A	
Power consumption	< 12 W	
Supply voltage	independent supply, 450 V _{dc} to 1000 V _{dc}	
Recommended rated current of fuses	1.5 x I _{MPP}	
Power loss per fuse	max. 3 W	
Cylindrical fuse	10x38 mm	
Permissible operation class	gPV	
General information		
Installation	outside installation	
Operating temperature	-20 °C to +50 °C	
Storage temperature	-40 °C to +70 °C	
Relative humidity	15 % to 85 %, condensation not permitted	
Pollution level as defined in EN 60664-1	2	
Safety / protective devices		
Protection class	IP44 ²⁾	IP44 ²⁾
DC surge arrester	type 2	
Dimensions (in mm)		
Height (excl. / incl. base)	862 / 1766	862 / 1383
Width	595	791
Depth	342	322
Weight (approx., excl. / incl. base)	29 kg / 43 kg	33 kg / 49 kg
Interfaces / features / optional extras		
Interfaces	1 x CAN (data transmission) 1 x analogue input (0 V to +10 V / 0 mA to 20 mA) for solar radiation or wind speed sensor 1 x PT100 input	
Features	manual load-break switch remote control load-break switch (160 A, 200 A only)	
Optional extras	external AC power supply 1 x 230 V _{ac} , 50/60 Hz DC surge arrester type 1 + 2 Bluetooth data transmission excl. string current monitoring	

1) If there are more than 15 inputs, the measuring channels are used twice.

2) With sunken base

Technical data

Designation		Irradiation sensor
Figure		
Measuring range	0 W/m ² to 1300 W/m ²	
Temperature compensation	yes	
Solar cell	monocrystalline silicon	
Termination technique	including 3 metre connecting cable	
Irradiance		
Error with temperature compensation compared to pyranometer over operating range from -20 °C to +70 °C (vertical light incidence):	±5 %	
Linearity of electronic circuit	±0.3 % from measured value for 50 W/m ² to 1300 W/m ²	
General data		
Operating temperature	-20 °C to +70 °C	
Protection	IP65	
Housing	powder-coated aluminium	
Dimensions		
Height	145 mm	
Width	86 mm	
Depth	39 mm	
Weight	0.34 kg	

Designation		Wind speed sensor
Figure		
Measuring range	0.5 m/s to 50 m/s	
Measurement accuracy	±0.5 m/s or ±3 % from measured value	
Resolution	<0.1 m/s	
Measurement principle	opto-electronic (slotted disk)	
Termination technique	including 12 metre connecting cable	
General data		
Mounting	e.g. mast tube with mounting thread or hole Ø 29 mm	
Operating temperature	-30 °C to +70 °C	
Weight	0.75 kg	