

# Sunny Boy SB 1100 / SB 1700



## The compact class



For installations outdoors and indoors

SMA grid guard® 2:  
Automatic disconnection

Extended temperature range  
-25 °C to +60 °C

Electronic Solar Switch ESS:  
Integrated DC circuit breaker  
(option)

Integrated 2-line display

Diagnostics and communication  
via Powerline, radio and cable  
(RS232 or RS485)

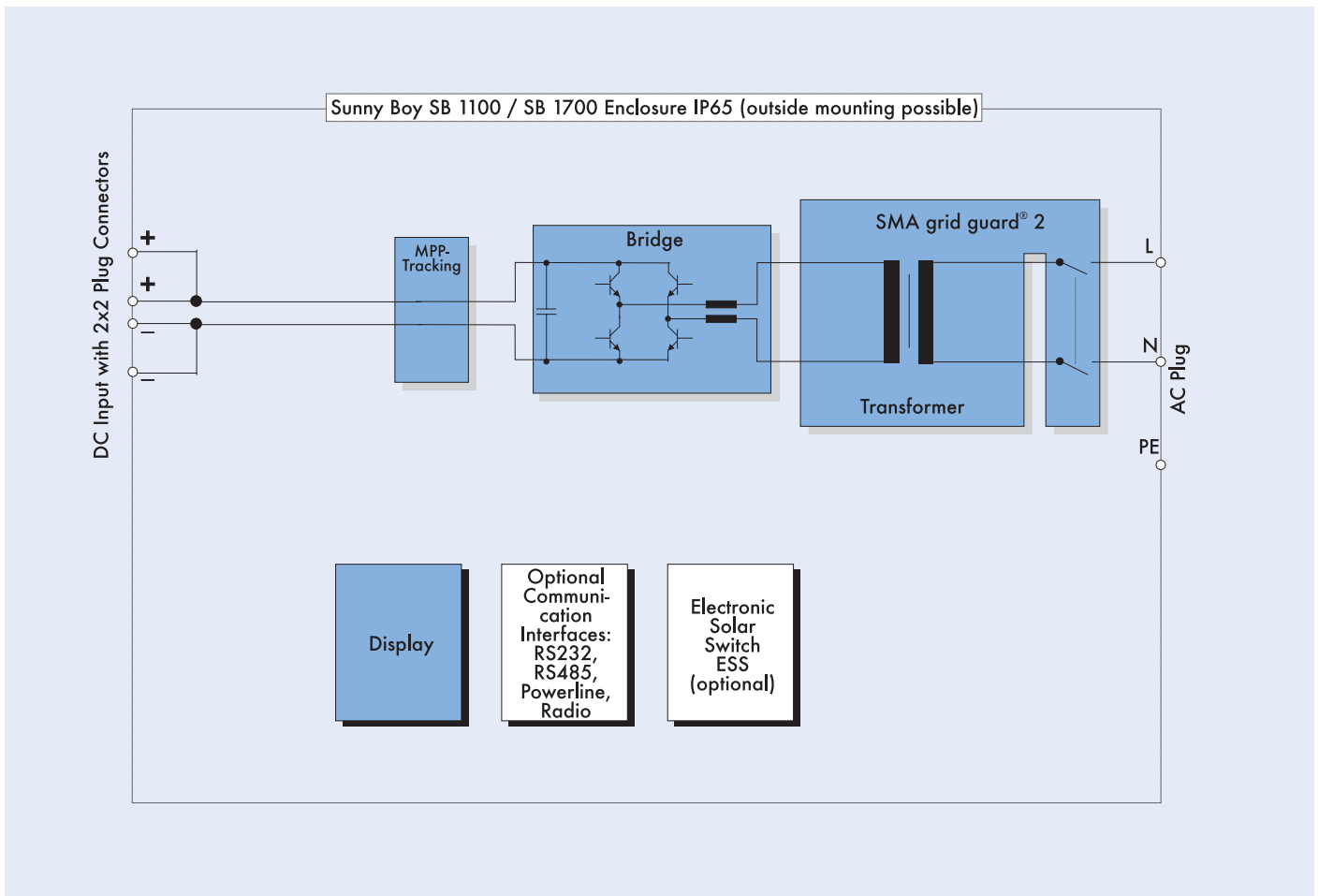
Automatic 50 Hz / 60 Hz grid  
frequency detection

5 years SMA warranty

When configuring any solar power installation, the aim is to get the optimum match between the solar generator's output power and the inverter's input power. This includes having the widest possible selection of different inverter types. The compact Sunny Boy SB 1100 and SB 1700 inverters have proven particularly successful with more than 30,000 units sold worldwide.

Packed full of innovative technologies, these "smaller" Sunny Boys also feature the international SMA grid guard® 2 interface. This ensures maximum reliability when operating the solar power system and enables electricity to be fed into mains grids anywhere in the world.

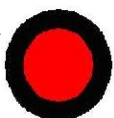




Schematic diagram of the Sunny Boy SB 1100 / SB 1700

## Technical Data

	SB 1100	SB1700
<b>Input data</b>		
Max. DC power ( $P_{DC, max}$ )	1210 W	1850 W
Max. DC voltage ( $U_{DC, max}$ )	400 V	400 V
PV voltage range, MPPT ( $U_{MPP}$ )	139 V - 400 V	139 V - 400 V
Max. input current ( $I_{PV, max}$ )	10 A	12.6 A
DC voltage ripple ( $U_{SS}$ )	< 10 %	< 10 %
Max. no. of strings (parallel)	2	2
DC isolator	plug connector, ESS	plug connector, ESS
Thermally monitored varistors	yes	yes
Ground fault monitoring	yes	yes
Reverse polarity protection	short circuit diode	short circuit diode
<b>Output data</b>		
Max. AC power ( $P_{AC, max}$ )	1100 W	1700 W
Nominal AC output ( $P_{AC, nom}$ )	1000 W	1550 W
Harmonic distortion of grid current	< 4 %	< 4 %
Nominal AC voltage ( $U_{AC, nom}$ )	220 V - 240 V	220 V - 240 V
Nominal AC frequency ( $f_{AC, nom}$ )	50 Hz / 60 Hz	50 Hz / 60 Hz
Power factor ( $\cos \varphi$ )	1	1
Short-circuit strength	yes, current regulation	yes, current regulation
Mains connection	AC plug connector	AC plug connector
<b>Efficiency</b>		
Max. efficiency	93 %	93.5 %
Euro-ETA	91.6 %	91.8 %
<b>Protection degree</b>		
in accordance with DIN EN 60529	IP65	IP65
<b>Mechanical data</b>		
Width/height/depth (mm)	434 / 295 / 214	434 / 295 / 214
Weight	22 kg	25 kg



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 for the Success of Photovoltaics

