

SB 1100 / SB 1700

Safe

- > Integrated ESS DC load disconnecting unit
- > Electric separation

Suitable for outdoors

- > For inside and outside installation
- > Extended temperature range

Reliable

- > Worldwide SMA service including Service Line
- > Attractive SMA warranty program



SUNNY BOY 1100 / 1700

The compact class

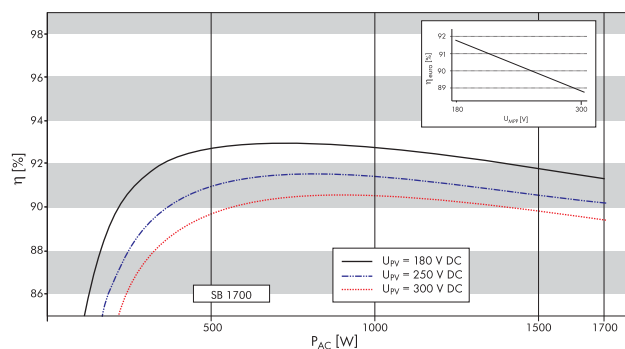
When configuring any solar power installation, the aim is to get the optimum match between the solar generator's output power and the inverter's input power. This includes having the widest possible selection of different inverter types. Our compact inverters, Sunny Boy 1100 and Sunny Boy 1700, have 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 interface. This ensures maximum reliability when operating the solar power system and enables electricity to be fed into public grids anywhere in the world.

Technical data

SUNNY BOY 1100 / 1700

	SB 1100	SB 1700
Input (DC)		
Max. DC input power	1210 W	1850 W
Max. DC voltage	400 V	400 V
PV voltage range, MPPT	139 V - 320 V	139 V - 320 V
Max. input current	10 A	12.6 A
Number of MPP trackers	1	1
Max. number of strings (parallel)	2	2
Output (AC)		
Nominal AC output power	1000 W	1550 W
Max. AC output power	1100 W	1700 W
Max. output current	5.6 A	8.6 A
Nominal AC voltage / range	220 V - 240 V / 180 V - 260 V	220 V - 240 V / 180 V - 260 V
AC grid frequency (self-adjusting) / range	50 Hz / 60 Hz / ± 4.5 Hz	50 Hz / 60 Hz / ± 4.5 Hz
Power factor (cos ϕ)	1	1
AC connection	single-phase	single-phase
Efficiency		
Max. efficiency	93.0 %	93.5 %
Euro ETA	91.6 %	91.8 %
Protective equipment		
DC reverse polarity protection	●	●
DC load-disconnecting switch ESS	●	●
AC short-circuit tolerance	●	●
Ground fault monitoring	●	●
Grid monitoring (SMA grid guard)	●	●
Galvanically isolated	●	●
General data		
Dimensions (W / H / D) in mm	434 / 295 / 214	434 / 295 / 214
Weight	22 kg	25 kg
Operating temperature range	-25 °C to +60 °C	-25 °C to +60 °C
Operating consumption: Operating (standby) / night	< 4 W / 0.1 W	< 5 W / 0.1 W
Topology	low frequency transformer	low frequency transformer
Cooling concept	convection	convection
Mounting location: indoor / outdoor (IP65)	●/●	●/●
Features		
DC connection: MC3 / MC4 / Tyco	●/○/○	●/○/○
AC connection: plug connector	●	●
LCD display	●	●
Cover color: red	●	●
Interfaces: RS485 / radio	○/○	○/○
Warranty: 5 years / 10 years	●/○	●/○
Certificates and approvals	www.SMA.de	www.SMA.de
● Standard equipment ○ Optional	Data at nominal conditions - Version: September 2008	

Efficiency curve



Accessories

