

- > Integrated ESS DC load disconnecting unit
- > Electric separation
- > For installation outdoors and indoors
- > Extended temperature range
- > Worldwide SMA service and SMA Serviceline
- > Attractive SMA warranty program



SUNNY BOY 1100 / 1700

The Compact Class

Optimal design of a PV-system includes the selection of an inverter that perfectly matches the power of the PV modules. One needs a wide range of different inverter types for this. Our compact class inverters with the Sunny Boy 1100 and Sunny Boy 1700 were installed in over 30,000 PV systems and are one of the most successful devices from SMA. They consist of innovative technology and are now available with the universal grid monitoring unit grid guard 2. This ensures maximum safety for the operation of your plant and the feeding to nearly any utility in the world.

Technical Data

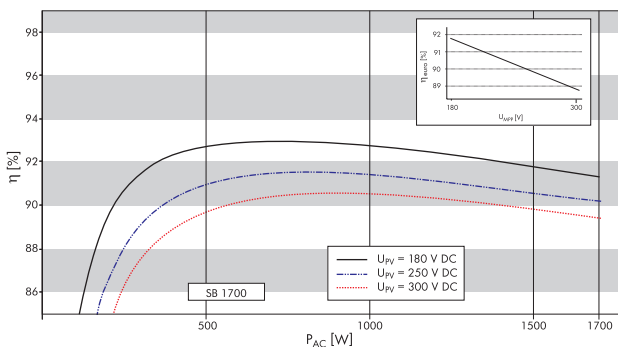
Sunny Boy 1100 / 1700

	SB 1100	SB 1700
Input (DC)		
Max. DC 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	1000 W	1550 W
Max. AC output	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 proof	●	●
Ground fault monitoring	●	●
Grid monitoring (SMA grid guard 2)	●	●
Electrically separation	●	●
General data		
Dimensions (W / H / D) in mm	434 / 295 / 214	434 / 295 / 214
Weight	22 kg	25 kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C
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
Installation location: indoor / outdoor (IP65)	●/●	●/●
Features		
DC connection: MC3 / MC4 / Tyco	●/○/○	●/○/○
AC connection: plug connector	●	●
LCD display	●	●
Cover color: red / blue / yellow	●/○/○	●/○/○
Interfaces: Powerline / RS232 / RS485 / radio	○/○/○/○	○/○/○/○
Warranty: 5 years / 10 years	●/○	●/○
Certificates and approvals	www.SMA.de	www.SMA.de

● Included ○ Option

Values apply for nominal conditions

Efficiency curve



Accessories

