

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

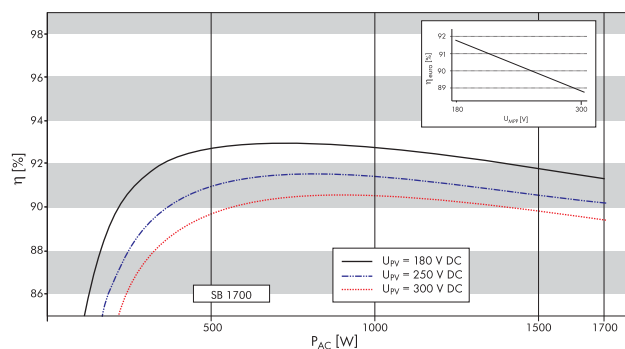
When configuring any solar power installation, the aim is to get the optimum match between the solar generator's output power and the inverter's input power. This includes having the widest possible selection of different inverter types. Our compact inverters, Sunny Boy 1100 and Sunny Boy 1700, have 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

