



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 range of Sunny Boys have proven particularly successful in this regard. Packed full of innovative technologies, the 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 mains grids anywhere in the world. MC III DC connections ensure easy installation.

Features

- | Easy plant design and reduced installation costs
- | SMA grid guard® (MSD)
- | Diagnosis and communication via Powerline Communication, radio transmission or via data cable (RS232 or RS485)
- | Extended temperature range -25 °C to +60 °C
- | For outdoor and indoor installation
- | Connection on the AC- and DC-side with connectors
- | Surge voltage protection with integrated thermally monitored varistors
- | 5 year SMA warranty (10 years optional)



Dimensions: 450 x 352 x 236 mm

Protection degree (DIN EN 60529): IP65

Input	SB 1100	SB 1700	SB 2500
Max DC power ($P_{DC, max}$)	1,210 W	1,850 W	2,700 W
Max DC voltage ($U_{DC, max}$)	400 V	400 V	600 V
PV voltage range, MPPT ($U_{PV, max}$)	139 - 400 V	139 - 400 V	224-600 V
Max input current ($I_{PV, max}$)	10 A	12.6 A	12 A
DC voltage ripple (U_{pp})	<10 %	<10 %	< 10%
Max number of strings (parallel)	2	2	3
Thermally monitored varistors	Yes	Yes	Yes
Ground fault monitoring	Yes	Yes	Yes
Reverse polarity protection	Short circuit diode	Short circuit diode	Short circuit diode

Output

Max AC power ($P_{AC, max}$)	1,100 W	1,700 W	2,500 W
Nominal AC power ($P_{AC, nom}$)	1,000 W	1,550 W	2,300 W
THD of grid current	<4 %	<4 %	< 4%
Default AC voltage ($U_{AC, nom}$)	198 - 260 V	198 - 260 V	220 - 240 V
AC frequency (F_{AC})	49.8 - 50.2 Hz	49.8 - 50.2 Hz	49.8 - 50.2 Hz
Short circuit proof	Yes, current control	Yes, current regulation	Yes, current regulation
Connection to utility	AC plug	AC plug	AC plug
Max Efficiency	93.0 %	93.5 %	94.1 %

Weight

SB 1100 / 1700 / 2500	22 / 25 / 30 kg
------------------------------	-----------------

Available from: