

SUNNY BOY 3300/3800

One of the most important criteria when purchasing an inverter is its efficiency. SMA has set a new record for transformer-based devices at 95.6%.

The higher the efficiency, the lower the losses that are incurred when converting direct current produced by the solar modules into alternating current. As well as ensuring the effectiveness of the OptiCool active cooling system, an all new, extra robust aluminium die-cast enclosure with a dual-chamber design also safely protects the electronic components from wind and weather.



FEATURES

- » Best efficiency of inverters with transformers in power class up to 4 kW
- » OptiCool: maximum output in ambient temperatures of up to 45 °C due to dual-chamber cooling system
- » Indoor & outdoor installation
- » Extended temperature range -25 °C to +60 °C
- » SMA grid guard: Automatic disconnection unit
- » Diagnostics & communication via network, radio & cable (RS232 or RS485)
- » Automatic 50 Hz / 60 Hz grid frequency detection
- » Integrated 2-line display
- » 5-year SMA warranty (10 years optional)

Input	SB 3300	SB 3800
Max DC power (PDC, max)	3,820 W	4,040 W
Max DC voltage (UDC, max)	500 V	500 V
PV voltage range, MPPT (UPV, max)	200-500 V	200-500 V
Max input current (IPV, max)	20 A	20 A
DC voltage ripple (Upp)	< 10%	<10 %
Max number of strings (parallel)	3	3
Thermally monitored varistors	Yes	Yes
DC connections	MC III	MC III
Ground fault monitoring	Yes	Yes
Reverse polarity protection	Short circuit diode	Short circuit diode
Output		
Max AC power (PAC, max)	3,600	W 3,800 W
Nominal AC power (PAC, nom)	3,300	W 3,800 W
THD of grid current	<4 %	<4 %
Default AC voltage (UAC, nom)	220 - 240 V	220 - 240 V
AC frequency (FAC)	50 / 60 Hz	50 / 60 Hz
Power factor (cos phi)	1	1
Short circuit proof	Yes, current control	Yes, current regulation
Connection to utility	AC plug	AC plug
Max Efficiency	95.2%	95.6%
Weight	41 kg	41 kg
Dimensions	450 x 352 x 236 mm	450 x 352 x 236 mm