

Sunny Boy SB 3300 / SB 3800

The best in their class

One of the most important criteria when purchasing an inverter is its efficiency. The higher the efficiency, the lower the losses that are incurred when converting direct current produced by the solar modules into alternating current.

SMA has set a new record for transformer-based devices of this power class by achieving a maximum efficiency of up to 95.6 %.

As well as ensuring maximum effectiveness of the OptiCool active cooling system developed by SMA, an all-new, extra robust aluminium diecast housing with a dual chamber design also safely protects the electronic components from wind and weather.



FEATURES

- » Highly efficient cooling system OptiCool.
- » Electric separation.
- » Efficiency up to 95.6 %
- » Integrated DC load-disconnecting switch ESS.
- » Grid feeding at nominal output in ambient temperatures of up to 45°C.
- » Worldwide SMA service and SMA Serviceline.
- » Comprehensive SMA warranty program.

	SB3300	SB3800	SB3300	SB3800
Input			Short circuit proof	Yes, current regulation
Max DC power (PDC, max)	3,820 W	4,040 W	Connection to utility	AC plug connector
Max DC voltage (UDC, max)	500 V		Efficiency	
PV voltage range, MPPT (UPV, max)	200-500 V		Max efficiency	95.2% 95.6%
Max input current (IPV, max)	20 A		Euro-efficiency	94.4% 94.7%
DC voltage ripple (Upp)	< 10%		Enclosure	
Max number of strings (parallel)	3		Accord. to DIN EN 60529	IP65
DC connections	MC III		Mechanical data	
Thermally monitored varistors	Yes		Dimensions (w x h x d)	450 x 352 x 236 mm
Ground fault monitoring	Yes		Weight	41 kg
Reverse polarity	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%			
Default AC voltage (UAC, nom)	220 - 240 V			
AC frequency (FAC)	50 / 60 Hz			