SB 3300 / SB 3800 / SB 3800/V



Powerful

- Highly efficient OptiCool ventilation system
- > Efficiency up to 95.6 %
- Feeding of maximum power up to an ambient temperature of 45 °C

Safe

- > Electric separation
- Integrated ESS DC-load disconnecting switch

Reliable

- > Worldwide SMA service and SMA Service Line
- Attractive SMA warranty program



SUNNY BOY 3300 / 3800

Price Effective

Excellent efficiency, outstanding performance in terms of environment: these are the key features of these two Sunny Boys. They are the first choice for you if you want optimum energy harvest due to the fact that they have a maximum efficiency of 95.6 % – this makes them the best transformer based devices in this power class. Both devices are suitable for both inside or outside installation and they are assembled in a sturdy aluminum enclosure. The patented OptiCool ventilation system with the dual-chamber design protects the electric components and guarantees highest efficiency. Your advantage: low component temperature within the inverter results in good overload capacity and highest yield from your PV system.

Technical Data SUNNY BOY 3300 / 3800 / 3800/V

	SB 3300	SB 3800	SB 3800/V*	
Input (DC)				
Max. DC power	3820 W	4040 W	3900 W	
Max. DC voltage	500 V	500 V	500 V	
PV voltage range, MPPT	200 V - 400 V	200 V - 400 V	200 V - 400 V	
Max. input current	20 A	20 A	20 A	
Number of MPP trackers	1	1	1	
Max. number of strings (parallel)	3	3	3	
Output (AC)				
Nominal AC output	3300 W	3800 W	3680 W	
Max. AC power	3600 W	3800 W	3680 W	
Max. output current	18 A	18 A	16 A	
Nominal AC voltage / range	220V - 240V / 180V - 260V	220V - 240V / 180V - 260V		
AC grid frequency (self-adjusting) / range	50 Hz / 60 Hz / ±4.5 Hz	50 Hz / 60 Hz / ±4.5 Hz	50 Hz / 60 Hz / ±4.5 Hz	
Power factor (cos φ)	1	1	1	
AC Connection	single-phase	single-phase	single-phase	
Efficiency	single phase	single phase	single phase	
Max. efficiency	95.2 %	95.6 %	95.6 %	
Euro ETA	94.4 %	94.7 %	94.7 %	
Protective equipment	74.4 /6	74.7 70	74.7 70	
DC reverse polarity protection	•		•	
DC load disconnecting switch ESS	•			
AC short circuit protection				
Ground fault monitoring				
Grid monitoring (SMA grid guard)	•			
Electric separation				
General Data				
	450 / 352 / 236	450 / 352 / 236	450 / 352 / 236	
Dimensions (W / H / D) in mm Weight	38 kg	450 / 352 / 236 38 kg	450 / 352 / 236 38 kg	
Operating temperature range	-25 °C +60 °C	-25 °C +60 °C	-25 °C +60 °C	
	-23 C +60 C ≤ 40 dB(A)	≤ 42 dB(A)	-25 C +60 C ≤ 42 dB(A)	
Noise emission (typical) Consumption: operating (standby) / night	< 7 W / 0.1 W	< 7 W / 0.1 W	< 7 W / 0.1 W	
		· ·		
Topology	low frequency transformer	low frequency transformer		
Cooling concept	OptiCool	OptiCool	OptiCool	
Installation location: indoor / outdoor (IP65)	●/●	●/●	●/●	
Features	A /0/0	A /0/0	•/	
DC connection: MC3 / MC4 / Tyco	•/ 0/0	•/ 0/0	•/ 5/5	
AC connection: plug connector				
LCD display				
Color of lid: red		0/0/0	0/0/0	
Interfaces: RS485 / radio / Bluetooth®	0/0/0	0/0/0	0/0/0	
Warranty: 5 years / 10 years	•/O	•/O	•/O	
Certificates and approvals	www.SMA.de	www.SMA.de	www.SMA.de	
Certificate number (please specify with the order)	-	-	V0153	
● Standard ○ Optional		Values apply for nominal conditions – Version: April 2009 *Version for country specific requirements according to EN 50438 with I _{AC} = 16 A		
Efficiency curve	Accessories	_	lio communication	
98- 	USB interface for transmission to PC Cooks are of the best of the		with the inverters	

98 Upy 200 V DC Upy - 200 V DC Upy - 400 V DC Upy -



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