

SUNNY BOY 3300 / 3800

SB 3300 / SB 3800



Powerful

- Efficiency of up to 95.6 %
- OptiCool active temperature management
- OptiTrac MPP tracking for best tracking efficiency

Reliable

- Galvanic isolation
- Integrated ESS DC switch-disconnector

Flexible

- For indoor and outdoor installation
- Suitable for PV array grounding

Simple

- SUNCLIX DC plug-in system

SUNNY BOY 3300 / 3800

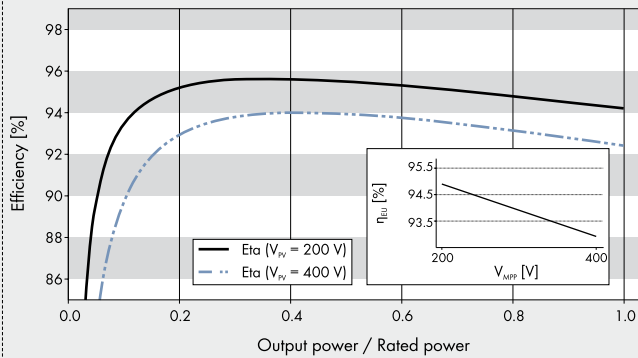
The generalist

It is robust, easy-to-handle, and, thanks to its galvanic isolation, can be used in all kinds of AC grids: the Sunny Boy 3300 / 3800. Due to its suitability for PV array grounding, it can be combined with all module types. The die-cast aluminum enclosure, with the OptiCool active cooling system guarantees the highest yields and a long service life, even under extreme conditions.

SUNNY BOY 3300 / 3800



Efficiency curve SUNNY BOY 3800



Accessories



RS485 interface
485PB-NR



Bluetooth Piggy-Back
BTPBINV-NR



Grounding set "Positive"
ESHV-P-NR



Grounding set "Negative"
ESHV-N-NR

* Does not apply to all national deviations of EN 50438

** Only applies to IT option

● Standard features ○ Optional features – Not available

Data at nominal conditions

Technical Data	Sunny Boy 3300	Sunny Boy 3800
Input (DC)		
Max. DC power (@ cos φ=1)	3820 W	4040 W
Max. input voltage	500 V	500 V
MPP voltage range / rated input voltage	200 V - 400 V / 200 V	200 V - 400 V / 200 V
Min. input voltage / initial input voltage	200 V / 250 V	200 V / 250 V
Max. input current	20 A	20 A
Max. input current per string	16 A	16 A
Number of independent MPP inputs / strings per MPP input	1 / 3	1 / 3
Output (AC)		
Rated output power (@ 230 V, 50 Hz)	3300 W	3800 W
Max. apparent AC power	3600 VA	3800 VA
Nominal AC voltage / range	220 V, 230 V, 240 V / 180 V - 265 V	220 V, 230 V, 240 V / 180 V - 265 V
AC power frequency / range	50 Hz, 60 Hz / -4.5 Hz ... +4.5 Hz	50 Hz, 60 Hz / -4.5 Hz ... +4.5 Hz
Rated power frequency / rated power voltage	50 Hz / 230 V	50 Hz / 230 V
Max. output current	18 A	18 A
Power factor at rated power	1	1
Adjustable displacement factor	–	–
Feed-in phases / connection phases	1 / 1	1 / 1
Efficiency		
Max. efficiency / European efficiency	95.2% / 94.4%	95.6% / 94.7%
Protection		
Input-side disconnection device	●	●
Ground-fault monitoring / grid monitoring	● / ●	● / ●
DC surge arrester Type II, can be integrated	–	–
DC reverse-polarity protection / AC short-circuit current capability / galvanically isolated	● / ● / ●	● / ● / ●
All-pole sensitive residual current monitoring unit	–	–
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)	I / III	I / III
General Data		
Dimensions (W / H / D)	450 / 352 / 236 mm (17.7 / 13.9 / 9.3 in)	450 / 352 / 236 mm (17.7 / 13.9 / 9.3 in)
Weight	38 kg / 83.6 lb	38 kg / 83.6 lb
Operating temperature range	-25 °C ... +60 °C / -13 °F ... +140 °F	-25 °C ... +60 °C / -13 °F ... +140 °F
Noise emission (typical)	40 dB(A)	42 dB(A)
Internal consumption (night)	0.1 W	0.1 W
Topology	LF transformer	LF transformer
Cooling concept	OptiCool	OptiCool
Degree of protection (according to IEC 60529)	IP65	IP65
Degree of protection of connection area (according to IEC 60529)	IP65	IP65
Climatic category (according to IEC 60721-3-4)	4K4H	4K4H
Maximum permissible value for relative humidity (non-condensing)	100 %	100 %
Features		
DC terminal	SUNCLIX	SUNCLIX
AC terminal	Connector	Connector
Display	Text line	Text line
Interface: RS485 / Bluetooth	○ / ○	○ / ○
Warranty: 5 / 10 / 15 / 20 / 25 years	● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○
Multi-function relay	–	–
Certificates and approvals (more available on request)	CE, VDE0126-1-1, DK 5940 ED2.2**, G83/1-1, CER/06/190, RD 1663/2000, RD 661/2007, PPC, AS4777, EN 50438*, PPDS, UTE C15-712-1, C10/11	
Type designation	SB 3300	SB 3800

www.SunnyPortal.com

Professional management, monitoring and presentation of PV plants



www.SMA-Solar.com

SMA Solar Technology