



SUNNY BOY 2000HFUS / 2500HFUS / 3000HFUS



- Slim enclosure mounts in between wall studs
- Field configurable for positive ground
- Indoor and outdoor rated

- Reduced weight
- Integrated lockable DC load disconnect switch
- OptiCool active temperature management

- Modern graphic display
- *Bluetooth*® communication system
- 10 year standard warranty

SUNNY BOY 2000HFUS / 2500HFUS / 3000HFUS

Designed for easy installation, simple communication and maximum performance

The new Sunny Boy high frequency inverters represent the next step in innovative SMA technology. Featuring world-class efficiency, a slim-line enclosure and reduced weight, the Sunny Boy HF series of inverters can be mounted in between wall studs, making it perfect for new construction, in addition to space-constrained retrofits. Installation is made simple by automatic grid detection**, field configuration for positive ground and a wide input voltage range of 175 to 600 volts, which provides exceptional system design flexibility. The modern graphic display and wireless *Bluetooth*® communication system also makes the new Sunny Boy easy to use.

**U.S. patent US7352549B1

Technical Data

	SB 2000HFUS		SB 2500HFUS		SB 3000HFUS	
	208 V	240 V	208 V	240 V	208 V	240 V
Recommended max. PV power (modules at STC)	2500 W		3125 W		3750 W	
Max. DC voltage	600 V		600 V		600 V	
PV voltage range, MPPT*	175 V - 480 V		215 V - 480 V		220 V - 480 V	
DC Minimum Start Voltage	220		220		220	
Max. input current	12.2 A		12.4 A		14.8 A	
Number of MPP trackers / max. number of strings (parallel), extendable	1 / 2		1 / 2		1 / 2	
Nominal AC power / max. AC power	2000 W / 2000 W		2500 W / 2500 W		3000 W / 3000 W	
Max. output current	10.0 A	8.5 A	12.0 A	10.4 A	14.4 A	12.5 A
Nominal AC voltage range	183 V - 229 V	211 V - 264 V	183 V - 229 V	211 V - 264 V	183 V - 229 V	211 V - 264 V
Nominal AC voltage / automatic grid type detection	208 V & 240 V / ●		208 V & 240 V / ●		208 V & 240 V / ●	
THD of grid current	< 4%		< 4%		< 4%	
AC grid frequency: nominal / range	60 Hz / 59.3 - 60.5 Hz		60 Hz / 59.3 - 60.5 Hz		60 Hz / 59.3 - 60.5 Hz	
Power factor (cos φ)	0.99 at nominal power		0.99 at nominal power		0.99 at nominal power	
Max. efficiency*	> 95.5%		> 95.5%		> 95.5%	
CEC*	≥ 95%		≥ 95%		≥ 95%	
Electromagnetic compliance	FCC, Part 15, Class A & B		FCC, Part 15, Class A & B		FCC, Part 15, Class A & B	
Certification*	UL1741, UL1998 IEEE 1547		UL1741, UL1998 IEEE 1547		UL1741, UL1998 IEEE 1547	
DC reverse polarity protection	●		●		●	
AC short-circuit protection	●		●		●	
Dimensions (W x H x D) in inches	13.7 x 28.6 x 7.2		13.7 x 28.6 x 7.2		13.7 x 28.6 x 7.2	
Packing dimensions in inches	17.7 x 23.6 x 15.7		17.7 x 23.6 x 15.7		17.7 x 23.6 x 15.7	
Weight*	< 50 lbs		< 50 lbs		< 50 lbs	
Operating temperature range (CEC)	-13 °F to 113 °F		-13 °F to 113 °F		-13 °F to 113 °F	
Consumption: (standby) operation / night	< 5 W / ≤ 0.25 W		< 5 W / ≤ 0.25 W		< 5 W / ≤ 0.25 W	
Topology	HF-transformer		HF-transformer		HF-transformer	
Cooling concept*	TBD		OptiCool		OptiCool	
Installation location: indoor / outdoor (NEMA 3R)	●/●		●/●		●/●	
Graphic display	●		●		●	
Interfaces: <i>Bluetooth</i> [®] / RS485	●/○		●/○		●/○	
Warranty: 10 years / 15 years / 20 years	●/○/○		●/○/○		●/○/○	
*Preliminary data as of September 2009						
● Standard ○ Optional						
Type designation	SB 2000HFUS-30		SB 2500HFUS-30		SB 3000HFUS-30	

Accessories



Installation frame for integration in wood-framed walls



Communication unit RS485 + multi-function relay

SUNNYBOYHFUS004115 Sunny Boy and SMA are registered trademarks of SMA Solar Technology AG. Text and figures comply with the state of the art applicable when printing. Subject to technical changes. We accept no liability for typographical and other errors. Printed on chlorine-free paper.

Tel. +1 916 625 0870
 Toll Free +1 888 4 SMA USA
www.SMA-America.com

SMA America, LLC