

# 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 ( $\cos \phi$ )	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: Bluetooth® / RS485	● / ○		● / ○		● / ○	
Warranty: 10 years / 15 years / 20 years	● / ○ / ○		● / ○ / ○		● / ○ / ○	
Type designation	SB 2000HFUS-30		SB 2500HFUS-30		SB 3000HFUS-30	

\*Preliminary data as of September 2009

● Standard ○ Optional

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## Accessories



Installation frame for integration in wood-framed walls



Communication unit RS485 + multi-function relay

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