SUNNY BOY 3000US / 4000US

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/23/15

- Highest CEC efficiency in its class
- Integrated load-break rated lockable DC disconnect switch
- Integrated fused series string combiner

- Sealed electronics enclosure & Opticool™
- Comprehensive SMA communications and data collection options

- Ideal for residential or light commercial applications
- Rugged cast aluminum outdoor rated enclosure
- UL 1741/IEEE-1547 compliant
- 10 year standard warranty

SUNNY BOY 3000US / 4000US

The best in their class

Our US series inverters utilize our proven technology and are designed specifically to meet IEEE-1547 requirements. Compact design makes them ideal for residential use and the integrated lockable DC disconnect makes installation more cost effective. They are field-configurable for positive ground systems making them more versatile than ever. Increased efficiency means better performance and shorter payback periods. Throughout the world, Sunny Boy is the benchmark for PV inverter performance and reliability.

Technical Data

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	SB 3000US	
Recommended Maximum PV Power (Module STC)	3750 W	4375 W @ 208 V / 5000 W @ 240 V
DC Maximum Voltage	500 V	600 V
Peak Power Tracking Voltage	175 – 400 V @ 208 V 200 – 400 V @ 240 V	220 – 480 V @ 208 V 250 – 480 V @ 240 V
DC Maximum Input Current	17 A	18 A*
DC Voltage Ripple	< 5%	< 5%
Number of Fused String Inputs	2 (inverter), 4 x 20 A (DC disconnect)	2 (inverter), 4 x 20 A (DC disconnect)
PV Start Voltage	228 V	285 V
AC Nominal Power	3000 W	3500 W @ 208 V / 4000 W @ 240 V
AC Maximum Output Power	3000 W	3500 W @ 208 V / 4000 W @ 240 V
AC Maximum Output Current	15 A @ 208 V, 13 A @ 240 V	17 A
AC Nominal Voltage Range	183 – 229 V @ 208 V 211 – 264 V @ 240 V	183 – 229 V @ 208 V 211 – 264 V @ 240 V
AC Frequency: nominal / range	60 Hz / 59.3 – 60.5 Hz	60 Hz / 59.3 – 60.5 Hz
Power Factor (Nominal)	0.99	0.99
Peak Inverter Efficiency	96.5%	96.8%
CEC Weighted Efficiency	95.0% @ 208 V 95.5% @ 240 V	95.5% @ 208 V 96.0% @ 240 V
Dimensions: W x H x D in inches	17.8 x 13.8 x 9.3	17.8 x 13.8 x 9.3
Weight / Shipping Weight	84 lbs / 97 lbs	84 lbs / 97 lbs
Ambient Temperature Range	−13 to 113 °F	−13 to 113 °F
Power Consumption: standby / nighttime	< 7 W / 0.1 W	< 7 W / 0.1 W
Topology	Low frequency transformer, true sinewave	Low frequency transformer, true sinewave
Cooling Concept	OptiCool™, forced active cooling	OptiCool™, forced active cooling
Mounting Location: indoor / outdoor (NEMA 3R)	●/●	●/●
LCD Display	●	●
Communication: RS485 / wireless	❍/❍	❍/❍
Warranty: 10-year	●	●
Compliance: IEEE-929, IEEE-1547, UL 1741, UL 1998, FCC Part 15 A & B	●	●
Specifications for nominal conditions	● Included ❍ Optional	

*Also available in 16 A current limited configuration for use in 100 A service applications.

NOTE: US inverters ship with gray lids.

Efficiency Curves

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