

Sunny Boy 3000 / 4000

Inverter



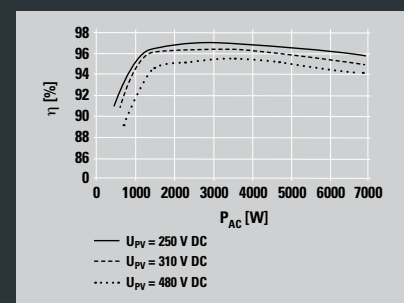
The Sunny Boy 3000 / 4000 line of inverters has been engineered with the latest technology to increase energy efficiency. Schüco has designed this line of inverters to be aesthetically pleasing and compact for ideal residential use.

Features

- Certified to the new UL 1741 / IEEE 1547
- 10 yr. standard warranty
- Improved CEC efficiency
- Integrated load-break rated 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

Efficiency Curves

The graph shows the efficiency of the system. Increased efficiency means better performance and shorter payback periods.



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Technical Data

Input Data (DC)	SB 3000	SB 4000
Schüco Article Number	232777	232778
Max. Recommended Array Input Power (DC @ STC)	3750 W	5000 W
Max. DC Voltage	500 V	600 V
Peak Power Tracking Voltage	180 – 400 V @ 208 V	220 – 480 V @ 208 V
	200 – 400 V @ 240 V	250 – 480 V @ 240 V
DC Max. Input Current	17 A	18 A
DC Voltage Ripple	< 5%	< 5%
Number of Fused String Inputs	4	4
PV Start Voltage (adjustable)	228 V	285 V
Output Data (AC)		
AC Nominal Power	3000 W	3500 W @ 208 V / 4000 W @ 240 V
AC Maximum Output Power	3000 W	4000 W
AC Maximum Output Current	15 A @ 208 V, 12.5 A @ 240 V	17 A @ 208 V, 16.6 A @ 240 V
AC Nominal Voltage / Range	183 – 229 V @ 208 V	183 – 229 V @ 208 V
	211 – 264 V @ 240 V	211 – 264 V @ 240 V
AC Frequency / Range	60 Hz / 59.3 Hz – 60.5 Hz	60 Hz / 59.3 Hz – 60.5 Hz
Power Factor	1	1
Efficiency		
Peak Inverter Efficiency	96.6 %	96.8 %
CEC Weighted Efficiency	95.0 % @ 208 V	95.5 % @ 208 V
	95.5 % @ 240 V	96.0 % @ 240 V
Mechanical Data		
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	88 lbs / 94 lbs	88 lbs / 94 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	PWM, true sinewave, current source	PWM, true sinewave, current source
Cooling Concept	Convection, regulated fan cooling	Convection, regulated fan cooling
Mounting Location: Indoor / Outdoor (NEMA 3R)	■ / ■	■ / ■
Features		
LCD Display	■	■
Communication: RS485 / Wireless	■ / ■	■ / ■
Warranty: 10-year	■	■
Compliance: IEEE-929, IEEE-1547, UL 1741, UL 1998, FCC Part 15 A & B	■	■

■ Included / ■ Optional
 Specifications for normal conditions.

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