

Sunny Boy 5000 / 6000 / 7000

Inverter



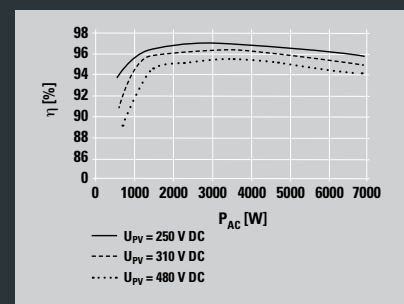
The Sunny Boy 5000 / 6000 / 7000 line of inverters has been engineered with the latest technology to increase energy efficiency. The SB 6000 and the SB 7000 are compatible with the Schüco Sunny Tower for an all-inclusive solution.

Features

- Certified to the new UL 1741 / IEEE 1547
- 10 yr. standard warranty
- Highest CEC efficiency in the class
- Integrated load-break rated AC and DC disconnect switch
- Integrated fused series string combiner
- Sealed electronics enclosure & Opticool
- Comprehensive SMA communications and data collection options
- Ideal for residential or commercial applications

Efficiency Curves

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



SCHÜCO

Technical Data

Input Data (DC)	SB 5000	SB 6000	SB 7000
Schüco Article Number	232779	232780	232781
Max. Recommended Array Input Power (DC @ STC)	6250 W	7500 W	8750 W
Max. DC Voltage	600 V	600 V	600 V
Peak Power Tracking Voltage	250 – 480 V	250 – 480 V	250 – 480 V
DC Max. Input Current	21 A	25 A	30 A
DC Voltage Ripple	< 5%	< 5%	< 5%
Number of Fused String Inputs	4	4	4
PV Start Voltage (adjustable)	300 V	300 V	300 V
Output Data (AC)			
AC Nominal Power	5000 W	6000 W	7000 W
AC Max. Output Power	5000 W	6000 W	7000 W
AC Max. Output Current (per phase @ 208, 240, 277 V)	24 A, 20.8 A, 18 A	29 A, 25 A, 21.6 A	34 A, 29 A, 25.3 A
AC Nominal Voltage / Range	183 – 229 V @ 208 V	183 – 229 V @ 208 V	183 – 229 V @ 208 V
	211 – 264 V @ 240 V	211 – 264 V @ 240 V	211 – 264 V @ 240 V
	244 – 305 V @ 277 V	244 – 305 V @ 277 V	244 – 305 V @ 277 V
AC Frequency / Range	60 Hz / 59.3 Hz – 60.5 Hz	60 Hz / 59.3 Hz – 60.5 Hz	60 Hz / 59.3 Hz – 60.5 Hz
Power Factor	1	1	1
Efficiency			
Peak Inverter Efficiency	96.8 %	97.0 %	97.1 %
CEC Weighted Efficiency	95.5 % @ 208 V	95.5 % @ 208 V	95.5 % @ 208 V
	95.5 % @ 240 V	95.5 % @ 240 V	96.0 % @ 240 V
	95.5 % @ 277 V	96.0 % @ 277 V	96.0 % @ 277 V
Mechanical Data			
Dimensions W x H x D in inches	18.4 x 24.1 x 9.5	18.4 x 24.1 x 9.5	18.4 x 24.1 x 9.5
Weight / Shipping Weight	143 lbs / 154 lbs	143 lbs / 154 lbs	143 lbs / 154 lbs
Ambient Temperature Range	-13 to +113 °F	-13 to +113 °F	-13 to +113 °F
Power Consumption: Standby / Nighttime	< 7 W / 0.25 W	< 7 W / 0.25 W	< 7 W / 0.25 W
Topology	PWM, true sinewave, current source	PWM, true sinewave, current source	PWM, true sinewave, current source
Cooling Concept	Convection, regulated fan cooling	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.

Schüco USA L.P.
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