

wind power inverters



Technical Data

- Certified to the new UL 1741/ IEEE 1547
- 5-year limited warranty standard
- CEC efficiency of up to 96 %
- Sealed electronics enclosure and OptiCool
- Comprehensive SMA communications and data collection options
- Rugged cast aluminum outdoor rated enclosure

	Windy Boy 5000US	Windy Boy 6000US	Windy Boy 7000US
nput Data (DC)			
Max. Recommended DC Input	5300 W	6350 W	7450 W
ower			
Max. DC Voltage	600 V	600 V	600 V
Peak Power Tracking Voltage	250 - 600 V	250 - 600 V	250 - 600 V
DC Max. Input Current	21 A	25 A	30 A
OC Voltage Ripple	< 10%	< 10%	< 10%
Number of Fused String Inputs	4	4	4
DC Start Voltage (adjustable)	300 V	300 V	300 V
Dutput Data (AC)			
AC Nominal Power	5000 W	6000 W	7000 W
AC Maximum Output Power	5100 W	6100 W	7100 W
AC Maximum Output Current	33.3 A, 28.5 A, 25.0 A	33.3 A, 28.5 A, 25.0 A	34.0 A, 34.0 A, 32.0 A
@ 208, 240, 277 V)			
AC Nominal Voltage / Kange	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 @ 2// V
AC Frequency / Kange	00 HZ / 39.3 - 00.3 HZ	00 HZ / 39.3 - 00.3 HZ	00 HZ / 39.3 - 00.3 HZ
	I	I	I
Poak Inverter Efficiency	06.9.9/	07 %	071%
FC Weighted Efficiency (208/240/277)	70.0 % 05.5 % /06.0 % /06.0 %	77 /0 05 5 9 /06 0 9 /06 0 9	77.1 /0
	13.3 /8/ 70.0 /8/ 70.0 /8	73.3 % 70.0 % 70.0 %	73.3 % 70.0 % 70.0 %
Dimensions W x H x D in inches	$18.4 \times 24.1 \times 9.5$	$18.4 \times 24.1 \times 9.5$	$18.4 \times 24.1 \times 9.5$
Veight / Shipping Weight	141 lbs / 148 lbs	141 lbs / 148 lbs	141 lbs / 148 lbs
Ambient Temperature Ranae	-13 to +113 °F	-13 to +113 °F	-13 to +113 °F
Power Consumption (standby)	< 7 W (0 1 W)	< 7 W (0 1 W)	< 7 W (0 1 W)
opology	PWM, true sine wave.	PWM, true sine wave.	PWM, true sine wave.
111107	current source	current source	current source
Cooling Concept	Convection, regulated	Convection, regulated	Convection, regulated
0	fan cooling	fan cooling	fan cooling
Nounting Location In-/Outdoor (NEMA 3R)	●/●	●/●	●/● Ŭ
eatures			
CD Display	•	•	•
id Color: red / aluminum	●/○	●/○	●/Q
Communication: RS485 / Wireless	O/O	O/O	O/O
Varranty: 5-year / 10-year	•/O	•/O	●/〇
Compliance: IEEE-929, IEEE-1547,	•	•	•
JL 1/41, UL 1998, FCC Part 15 A & B			

Specifications for nominal conditions:

Optional

Included

WINDY BOY 5000US / 6000US / 7000US

SMA's larger Windy Boy inverters combine the advanced technology present in our new US series of Sunny Boy inverters with special firmware that permits direct grid-tied operation with a broad range of wind turbines without batteries. This greatly reduces the overall system cost because components such as the charge controller, batteries and associated switch gear can be eliminated. Increased total energy capture combined with a reduction of balance of system components greatly reduces the installation and operating costs of a grid-tied wind system. We recommend contacting your local wind turbine supplier for information on compatible wind turbine models and system design considerations.

