



WINDY BOY 2000HF-US / 2500HF-US / 3000HF-US

WB 2000HFUS / WB 2500HFUS / WB 3000HFUS



Flexible

- Broad input voltage range
- Reduced weight

Reliable

- Galvanic isolation
- Anti-theft protection

Easy to Use

- Fast and simple connection
- Plug-in grounding with GFDI
- Simple country configuration

Informative

- *Bluetooth*[®] technology
- Graphic display

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The flexible solution for the lower power range

This is the new generation of inverters designed for the countries requiring UL certification*. Packed full of the latest SMA technology, the Windy Boy 2000HF-US, 2500HF-US and 3000HF-US provide the highest yields for transformer-based inverters in this performance class. Installation has been made even simpler due to automatic grid detection**, plug-in generator grounding (with GFDI) and reduced weight. The broad input voltage range also offers great freedom in wind turbine selection and enables grid-feeding even at low wind speeds. The modern graphic display and wireless *Bluetooth* communication system make the devices very user-friendly. The Windy Boy HF is the optimal UL-compliant solution for small wind systems.

Technical data	Windy Boy 2000HF-US		Windy Boy 2500HF-US		Windy Boy 3000HF-US	
	208 V	240 V	208 V	240 V	208 V	240 V
Input (DC)						
Max. DC power	2500 W		3125 W		3750 W	
Max. DC voltage	600 V		600 V		600 V	
DC nominal voltage	www.SMA-Solar.com.		www.SMA-Solar.com.		www.SMA-Solar.com.	
Min. open circuit voltage for activating "Turbine Mode"	220 V		220 V		220 V	
Operating range "Turbine Mode"	175 V - 480 V		215 V - 480 V		215 V - 480 V	
Max. input current	12.2 A		12.4 A		14.8 A	
Output (AC)						
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
AC grid frequency / range	60 Hz / 59.3 Hz - 60.5 Hz					
Power factor (cos φ)	0.99 at nominal power					
Phase conductors / connection phases	1/1		1/1		1/1	
Efficiency						
Max. efficiency / Euro-Eta	95.5% / 95%		95.5% / 95%		95.5% / 95%	
Protective devices						
DC reverse-polarity protection	●		●		●	
AC short-circuit protection	●		●		●	
Ground fault monitoring	●		●		●	
Galvanically isolated	●		●		●	
Protection class / overvoltage category	I / III		I / III		I / III	
General data						
Dimensions (W / H / D) in mm (in)	348 / 727 / 183 (14 / 29 / 7)					
Weight	< 23 kg (50 lb)					
Operation temperature range	-25 °C ... +45 °C (-13 °F ... +113 °F)					
Internal consumption in standby	≤ 0.25 W		≤ 0.25 W		≤ 0.25 W	
Topology	HF transformer		HF transformer		HF transformer	
Cooling concept	OptiCool™		OptiCool™		OptiCool™	
Climatic category (per IEC 60721)	4K4H		4K4H		4K4H	
Mounting location: indoor / outdoor (NEMA 3R)	●/●		●/●		●/●	
Features						
Display: text line / graphic	- / ●		- / ●		- / ●	
Interfaces: RS485 / Bluetooth	○ / ●		○ / ●		○ / ●	
Warranty: 10 years	●		●		●	
Certificates and permits	FCC, Part 15, Class A & B, UL 1741*, UL 1998*, IEEE 1547					
Data at nominal conditions						
● Standard features ○ Optional features – Not available						
Type designation	WB 2000HFUS		WB 2500HFUS		WB 3000HFUS	

