



WINDY BOY 3000-US / 3800-US / 4000-US

WB 3000US / 3800-US / 4000-US



UL Certified

- For the North American small wind market (UL 1741/IEEE-1547)

Efficient

- Peak efficiency of 96.5%
- OptiCool™ active temperature management

Easy to Use

- Programmable polynomial curve enables free selection of turbines

Reliable

- Galvanic isolation due to integrated transformer

WINDY BOY 3000-US / 3800-US / 4000-US

A reliable option with UL certification

User-friendly, safe and reliable, the Windy Boy is specially certified for locations requiring UL certification. The automatic grid voltage detection* allows for straightforward and secure installation. The aluminum die-cast enclosure and the OptiCool active cooling system ensure optimal yield as well as a long lifespan, even under adverse operating conditions.

* US-Patent US7352549B1

Technical data	Windy Boy 3000-US		Windy Boy 3800-US	Windy Boy 4000-US	
	208 V	240 V	240 V	208 V	240 V
Input (DC)					
Max. DC power	3200 W		4200 W	4200 W	
Max. DC voltage	500 V		600 V	600 V	
DC nominal voltage	250 V		310 V	310 V	
Min. open circuit voltage for activating "Turbine Mode"	228 V		285 V	285 V	
Operating range "Turbine Mode"	175 V - 500 V	200 V - 500 V	250 V - 600 V	250 V - 600 V	
Max. input current	17 A		18 A	18 A	
Output (AC)					
AC nominal power	3000 W		3800 W	3500 W	4000 W
Max. AC power	3000 W		3800 W	3500 W	4000 W
Max. output current	15 A		16 A	17 A	
Nominal AC voltage / AC operating range	183 - 229 V	211 - 264 V	211 - 264 V	183 - 229 V	211 - 264 V
AC grid frequency / range	60 Hz / 59.3 - 60.5 Hz		60 Hz / 59.3 - 60.5 Hz	60 Hz / 59.3 - 60.5 Hz	
Power factor (cos φ)	1		1	1	
Phase conductors / connection phases	1 / 2		1 / 2	1 / 2	
Efficiency					
Max. efficiency	96%		96.5%	96.5%	96.8%
CEC	95.0%	95.5%	96%	95.5%	96%
Protective devices					
DC reverse-polarity protection	●		●	●	
AC short-circuit protection	●		●	●	
Galvanically isolated	●		●	●	
Protection class / overvoltage category	I / III		I / III	I / III	
General data					
Dimensions (W / H / D) in mm (in)	450 / 352 / 236 (18 / 14 / 9)				
Weight	40 kg (88 lb)				
Operation temperature range	-25 °C ... +45 °C (-13 °F ... +113 °F)				
Noise emission (typical)	≤ 40 dB		≤ 40 dB	≤ 40 dB	
Internal consumption in standby	0.1 W		0.1 W	0.1 W	
Topology	LF transformer		LF transformer	LF transformer	
Cooling concept	OptiCool		OptiCool	OptiCool	
Electronics protection rating / connection area	NEMA 3R		NEMA 3R	NEMA 3R	
Features					
Display: text line / graphic	● / -		● / -	● / -	
Communication: RS485 / Bluetooth	○ / ○		○ / ○	○ / ○	
Warranty: 10 years	●		●	●	
Certificates and permits	FCC, Part 15, Class A & B, UL 1741, IEEE-1741, UL 1998				
NOTE: US inverters ship with gray lids.					
Data at nominal conditions					
● Standard features ○ Optional features - Not available					
Type designation	WB 3000-US		WB 3800-US	WB 4000-US	

