

# WINDY BOY 2500 / 3000

WB 2500 / WB 3000



## Efficiency

- Efficiency up to 95 %
- Improved yields via polynomial curves

## Easy to use

- Free choice of installation site
- Certified for the most countries (SMA Grid Guard)

## Reliability

- Galvanic Isolation
- Compatible with Windy Boy Protection Box 600

## Reliable

- Worldwide SMA Service including Serviceline
- Comprehensive SMA warranty program

## WINDY BOY 2500 / 3000

Worldwide proven technology

Windy Boy 2500 and 3000 inverters are ideally suited to small wind energy plants, and feature a maximum efficiency of 95 percent. The programmable polynomial curve enables optimal adaptation to the turbine curve, which is also protected with a special smooth start device. This Windy Boy also features the SMA Grid Guard interface, which can be used anywhere in the world. It ensures maximum wind energy plant reliability and allows for the feeding-in to almost any public grid.

Technical data	Windy Boy 2500	Windy Boy 3000
<b>Input (DC)</b>		
Max. DC power	2700 W	3200 W
Recommended generator power at 2500 / 5000 full-load hours per year	2100 W / 1900 W	2500 W / 2200 W
Max. DC voltage	600 V	600 V
DC nominal voltage	300 V	350 V
Min. open circuit voltage for activating "Turbine Mode"	300 V	330 V
Operating range "Turbine Mode"	250 V - 600 V	290 V - 600 V
Max. input current	12.0 A	12.0 A
<b>Output (AC)</b>		
AC nominal power	2300 W	2750 W
Max. AC power	2500 W	3000 W
Max. output current	12.5 A	15.0 A
Nominal AC voltage / AC operating range	230 V / 180 V - 260 V	230 V / 180 V - 260 V
AC grid frequency / range	50 Hz, 60 Hz / ± 4.5 Hz	50 Hz, 60 Hz / ± 4.5 Hz
Power factor (cos φ)	1	1
Phase conductors / connection phases	1 / 1	1 / 1
<b>Efficiency</b>		
Max. efficiency / Euro-Eta	94.1 % / 93.2 %	95.0 % / 93.6 %
<b>Protective devices</b>		
DC reverse-polarity protection	●	●
AC short-circuit protection	●	●
Ground fault monitoring	●	●
Grid monitoring (SMA Grid Guard)	●	●
Protection class / overvoltage category	I / III	I / III
<b>General data</b>		
Dimensions (W / H / D) in mm	440 / 339 / 214	440 / 339 / 214
Weight	28 kg	32 kg
Operation temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	≤ 33 dB(A)	≤ 30 dB(A)
Internal consumption: Operation / standby	< 7 W / 0.25 W	< 7 W / 0.25 W
Topology	LF transformer	LF transformer
Cooling concept	Convection	Convection
Electronics protection rating / connection area (per IEC 60529)	IP65 / IP65	IP65 / IP65
Climatic category (per IEC 60721)	4K4H	4K4H
<b>Features</b>		
DC connection: SUNCLIX	●	●
AC connection: plug connector	●	●
Display: text line / graphic	● / -	● / -
Interfaces: RS485 / Bluetooth®	○ / ○	○ / ○
Warranty: 5 years / 10 years	● / ○	● / ○
Certificates and permits	CE, VDE0126-1-1, G83/1, CER/06/190, DK 5940 ED2.2*, RD 1663, AS4777, EN 50438	
* applies only to IT variant		
● Standard features   ○ Optional features   – Not available / Data at nominal conditions		
Type name	WB 2500	WB 3000

