

WINDY BOY 2500 / 3000

WB 2500 / WB 3000



Economical

- Up to 95 % efficiency
- Improved yields via polynomial curves

Simple

- Free selection of mounting location
- Certified for the major countries (SMA Grid Guard)

Reliable

- Galvanic isolation
- Compatible with the Windy Boy Protection Box 600

Reliable

- Worldwide SMA Service including Serviceline
- Comprehensive SMA warranty program

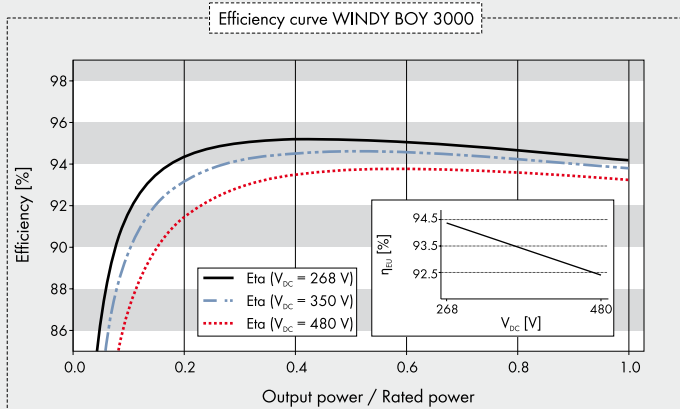
WINDY BOY 2500 / 3000

Worldwide proven technology

Windy Boy 2500 and 3000 inverters are ideally suited for small wind turbine systems, and feature a maximum efficiency of 95 percent. The programmable polynomial curve enables ideal adjustment to the characteristic curve of the turbine, which is also protected by 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 turbine system reliability and allows for the feed-in to almost any power distribution grid.

WINDY BOY 2500 / 3000





Accessories



RS485 interface
485USPB-NR



Bluetooth Piggy-Back
BTPBINV-NR



Grounding set "Positive"
ESHV-P-NR



Grounding set "Negative"
ESHV-N-NR

Data at nominal conditions
DK 5940 ED2.2 only applies to IT variant

Technical Data	Windy Boy 2500	Windy Boy 3000
Input (DC)		
Max. DC power (@ cos φ=1)	2700 W	3200 W
Recommended array power at 2500 / 5000 full load hours per year	2100 W / 1900 W	2500 W / 2200 W
Max. input voltage / nominal DC voltage	600 V / 300 V	600 V / 350 V
Min. open-circuit voltage for activating "Turbine Mode"	250 V	290 V
Voltage range in "Turbine Mode"	224 V - 600 V	268 V - 600 V
Max. input current	12 A	12 A
Output (AC)		
Rated output power (@ 230 V, 50 Hz)	2300 W	2750 W
Max. apparent AC power	2500 VA	3000 VA
Nominal AC voltage / range	220 V, 230 V, 240 V / 180 V - 265 V	220 V, 230 V, 240 V / 180 V - 265 V
Power line frequency / range	50 Hz, 60 Hz / -4.5 Hz ... +4.5 Hz	50 Hz, 60 Hz / -4.5 Hz ... +4.5 Hz
Rated power frequency / rated power voltage	50 Hz / 230 V	50 Hz / 230 V
Max. output current	12.5 A	15.1 A
Power factor at rated output power	1	1
Feed-in phases / connection phases	1 / 1	1 / 1
Efficiency		
Max. efficiency / European efficiency	94.1 % / 93.2 %	95 % / 93.6 %
Protection		
Ground fault monitoring / grid monitoring	● / ●	● / ●
DC reverse polarity protection / AC short-circuit current capability / galvanically isolated	● / ● / ●	● / ● / ●
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)	I / III	I / III
General Data		
Dimensions (W / H / D)	440 / 339 / 214 mm (17.3 / 13.3 / 8.4 inch)	440 / 339 / 214 mm (17.3 / 13.3 / 8.4 inch)
Weight	28 kg / 61,7 lb	31 kg / 70.5 lb
Operating temperature range	-25 °C ... +60 °C / -13 °F ... +140 °F	-25 °C ... +60 °C / -13 °F ... +140 °F
Noise emission	33 db(A)	30 db(A)
Topology	LF transformer	LF transformer
Cooling concept	Convection	Convection
Protection class of electronics / connection area (according to IEC 60529)	IP65 / IP65	IP65 / IP65
Climatic category (according to IEC 60721-2-1)	4K4H	4K4H
Maximum permissible value for relative humidity (non-condensing)	100 %	100 %
Features		
DC terminal	SUNCLIX	SUNCLIX
AC terminal	Connector	Connector
Display	Text line	Text line
Interfaces: RS485 / Bluetooth	○ / ○	○ / ○
Warranty: 5 / 10 years	● / ○	● / ○
Certificates and approvals (additional on request)	CE, VDE0126-1-1, DK 5940 ED2.2, G83/1-1, CER/06/190, RD 1663, AS4777, EN 50438	CE, VDE0126-1-1, DK 5940 ED2.2, G83/1-1, CER/06/190, RD 1663, AS4777, EN 50438
● Standard features ○ Optional features – Not available		
Type designation	WB 2500	WB 3000

WINDY BOY PROTECTION BOX

Optimal protection for small wind power plants

