

**Maximum yield**

- > Line control optimized for wind energy systems
- > Efficiency of up to 95%
- > Freely configurable power curve

**Easy installation**

- > Free choice of mounting location
- > Certified for the most important countries of installation (SMA grid guard)

**Safe operation**

- > Smooth start-up preserves the turbine
- > Electric separation
- > Compatible with Windy Boy Protection Box 600
- > Tested technology, proven 10,000 times
- > Worldwide SMA service and SMA Service Line
- > Comprehensive SMA warranty program



# WINDY BOY 2500 / 3000

Proven in the Field

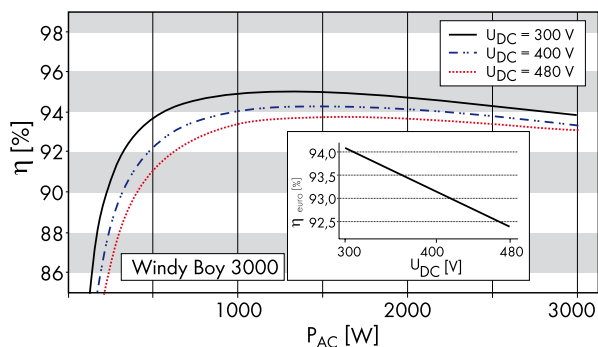
The Windy Boys 2500 and 3000 are perfectly suitable for small wind energy plants: Installed in over 10,000 PV systems, they are successfully used worldwide and impress with a maximum efficiency of 95%. The programmable power curve enables optimal adaptation to the characteristics of the wind turbine, which is also preserved by a special smooth start-up device. This Windy Boy also features the international SMA grid guard interface. It ensures maximum reliability when operating the small wind energy system and allows the feeding to nearly any utility.

# Technical Data

## WINDY BOY 2500 / 3000

	WB 2500	WB 3000
<b>Input (DC)</b>		
Max. DC power	2700 W	3200 W
Recommended generator power at 2500 full-load hours / year	2100 W	2500 W
Recommended generator power at 5000 full-load hours / year	1900 W	2200 W
Max DC voltage	600 V	600 V
Min. open circuit voltage for activating "Turbine Mode"	250 V	290 V
"Turbine Mode" operating range	224 V - 600 V	268 V - 600 V
Max. input current	12 A	12 A
<b>Output (AC)</b>		
Nominal AC output power	2300 W	2750 W
Max. AC output power	2500 W	3000 W
Max. output current	12.5 A	15 A
Nominal AC voltage / AC operating range	220 V - 240 V / 180 V - 260 V	220 V - 240 V / 180 V - 260 V
AC grid frequency (self-adjusting) / range	50 Hz / 60 Hz / $\pm 4.5$ Hz	50 Hz / 60 Hz / $\pm 4.5$ Hz
Power factor (cos $\phi$ )	1	1
AC Connection	single-phase	single-phase
<b>Efficiency</b>		
Max. efficiency	94.1%	95.0%
Euro ETA	93.2%	93.6%
<b>Protective equipment</b>		
DC reverse polarity protection	●	●
AC short-circuit protection	●	●
Ground fault monitoring	●	●
Grid monitoring (SMA grid guard)	●	●
Electric separation	●	●
<b>General data</b>		
Dimensions (W / H / D) in mm	434 / 295 / 214	434 / 295 / 214
Weight	30 kg	32 kg
Operation temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C
Internal consumption: operation / standby	< 7 W / 0.25 W	< 7 W / 0.25 W
Topology	Low frequency transformer	Low frequency transformer
Cooling concept	Convection	Convection
Installation location: indoor / outdoor (IP65)	●/●	●/●
<b>Features</b>		
DC connection: MC3 / MC4 / Tyco	●/○/○	●/○/○
AC connection: plug connector	●	●
LCD display	●	●
Cover color: red	●	●
Interfaces: RS485 / radio	○/○	○/○
Warranty: 5 years / 10 years	●/○	●/○
Certificates and approvals	www.SMA.de	www.SMA.de
● Standard      ○ Optional	Values apply for nominal conditions - Version: February 2009	

Efficiency curve



Accessories Windy Boy Protection Boy 600

