

Maximum yield

- > Efficiency of up to 95.6%
- > OptiCool: continuous operation even at high temperatures
- > Freely configurable power curve

Easy Installation

- > Free choice of mounting location
- > Free choice of turbine due to programmable power curve
- > 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 500
- > Worldwide SMA service and SMA Service Line
- > Comprehensive SMA warranty program



WINDY BOY 3300 / 3800

The Money Makers

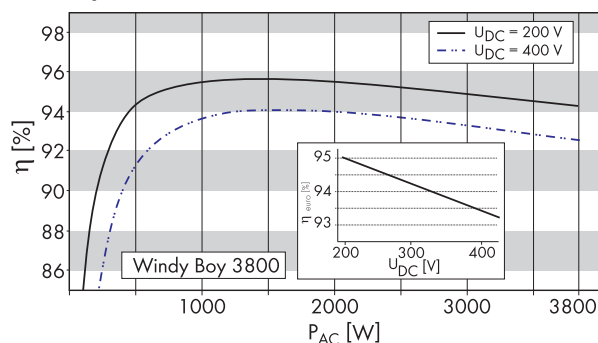
With a maximum efficiency of 95.6%, the Windy Boys 3300 and 3800 are among the most profitable inverters for small wind energy systems. The weatherproof housing and the wide temperature range allow for installation in almost every location. Thanks to SMA's patented OptiCool cooling system the devices function with maximum performance up to an outdoor temperature of 45 °C. The programmable power curve enables optimal adaptation to the characteristics of the wind turbine and therefore increases the yield. And should there still be any problems, the worldwide SMA service and the comprehensive warranty program ensure maximum security.

Technical Data

WINDY BOY 3300 / 3800

	WB 3300	WB 3800
Input (DC)		
Max. DC power	3820 W	4040 W
Recommended generator power at 2500 full-load hours per year	3100 W	3600 W
Recommended generator power at 5000 full-load hours per year	2800 W	3300 W
Max DC voltage	500 V	500 V
Min. open circuit voltage for activating "Turbine Mode"	200 V	200 V
"Turbine Mode" operating range	200 V - 500 V	200 V - 500 V
Max. input current	20 A	20 A
Output (AC)		
Nominal AC output power	3300 W	3800 W
Max. AC output power	3600 W	3800 W
Max. output current	18 A	18 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 ϕ)	1	1
AC connection	single-phase	single-phase
Efficiency		
Max. efficiency	95.2%	95.6%
Euro ETA	94.4%	94.7%
Protective equipment		
DC reverse polarity protection	●	●
AC short-circuit proofing	●	●
Ground fault monitoring	●	●
Grid monitoring (SMA grid guard)	●	●
Electric separation	●	●
General data		
Dimensions (W / H / D) in mm	450 / 352 / 236	450 / 352 / 236
Weight	41 kg	41 kg
Operation temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C
Internal consumption: Operation / standby	< 7 W / 0.1 W	< 7 W / 0.1 W
Topology	Low frequency transformer	Low frequency transformer
Cooling concept	OptiCool	OptiCool
Mounting location: indoor / outdoor (IP65)	●/●	●/●
Features		
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 Box 500

