

**Maximum yield**

- > Specially designed for small wind energy plants
- > Freely configurable power curve

**Easy Installation**

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

**Safe operation**

- > Electric separation
- > Compatible with Windy Boy Protection Box 400
- > Worldwide SMA service and SMA Service Line
- > Comprehensive SMA warranty program



# WINDY BOY 1200 / 1700

## The Compact Class

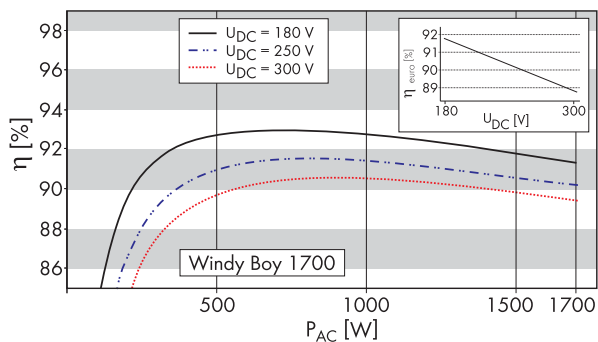
The Windy Boys 1200 and 1700 are perfectly suitable for small wind energy plants. The programmable power curve enables optimal adaptation to the characteristics of the wind turbine and therefore increases the yield. Its weatherproof housing and the wide temperature range allow the installation in almost every location. The devices are optimally adjusted to fast and frequent load changes and, with the optimal Windy Boy Protection Box, provide the perfect interface for any turbine. Using the integrated display and different communication interfaces you can monitor all plant values at any time. And should there still be any problems: The worldwide SMA service and the comprehensive warranty program ensure maximum security.

# Technical Data

## WINDY BOY 1200 / 1700

	WB 1200	WB 1700
<b>Input (DC)</b>		
Max. DC power	1320 W	1850 W
Recommended generator power at 2500 full-load hours / year	1000 W	1400 W
Recommended generator power at 5000 full-load hours / year	900 W	1300 W
Max DC voltage	400 V	400 V
Min. open circuit input voltage for activating "Turbine Mode"	150 V	150 V
"Turbine Mode" operating range	100 V - 400 V	139 V - 400 V
Max. input current	10 A	12.6 A
<b>Output (AC)</b>		
Nominal AC output power	1000 W	1550 W
Max. AC output power	1100 W	1700 W
Max. output current	5.6 A	8.6 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	93.0%	93.5%
Euro ETA	91.6%	91.8%
<b>Protective equipment</b>		
DC reverse polarity protection	●	●
AC short-circuit proofing	●	●
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	22 kg	25 kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C
Internal consumption: operation / standby	< 4 W / 0.1 W	< 5 W / 0.1 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	Data at nominal conditions - Version: February 2009	

Efficiency curve



Accessories Windy Boy Protection Box 400

