

WINDY BOY 1200 / 1700

WB 1200 / WB 1700



Economical

- Specially designed for small wind turbine systems
- Improved yield through polynomial curve

Simple

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

Reliable

- Galvanic isolation
- Compatible with the Windy Boy Protection Box 400

Flexible

- Broad input voltage range for Windy Boy 1200

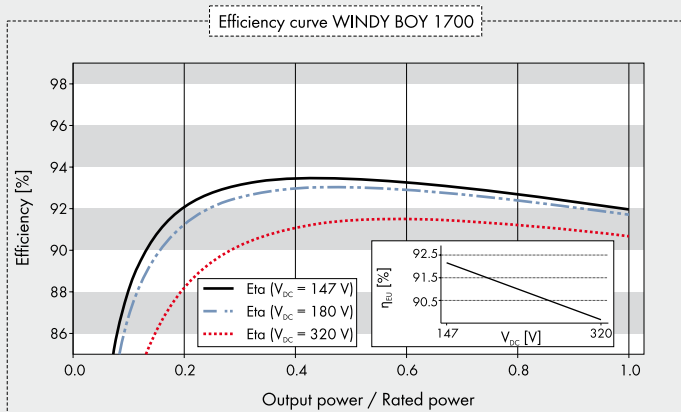
WINDY BOY 1200 / 1700

The powerful compact devices

Ideal for small wind turbine systems: The programmable polynomial curve of the Windy Boy 1200 and 1700 inverters enables ideal adjustment to the characteristic curve of the turbine thus increasing the yield. The weatherproof enclosure and the wide temperature range allow for installation at almost any location. The devices are optimally adjusted to fast and frequent load changes and, with the 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.

WINDY BOY 1200 / 1700





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 1200	Windy Boy 1700
Input (DC)		
Max. DC power (@ cos φ=1)	1320 W	1850 W
Recommended array power at 2500 / 5000 full load hours per year	1050 W / 1000 W	1400 W / 1300 W
Max. input voltage / nominal DC voltage	400 V / 120 V	400 V / 180 V
Min. open-circuit voltage for activating "Turbine Mode"	120 V	150 V
Voltage range in "Turbine Mode"	100 V - 400 V	139 V - 400 V
Max. input current	12,6 A	12,6 A
Output (AC)		
Rated output power (@ 230 V, 50 Hz)	1200 W	1550 W
Max. apparent AC power	1200 VA	1700 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	6.1 A	8.6 A
Power factor at rated output power	1	1
Feed-in phases / connection phases	1 / 1	1 / 1
Efficiency		
Max. efficiency / European efficiency	92.1 % / 90.9 %	93.5 % / 91.7 %
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	25 kg/55.1 lb	25 kg/55.1 lb
Operating temperature range	-25 °C ... +60 °C / -13 °F ... +140 °F	-25 °C ... +60 °C / -13 °F ... +140 °F
Noise emission	46 db(A)	46 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 1200	WB 1700

WINDY BOY PROTECTION BOX

Optimal overvoltage protection for your inverter

