

WINDY BOY 1100LV

WB 1100LV



Efficiency

- Specially designed for small wind energy plants
- Outstanding performance at low wind speeds

Easy to use

- Programmable polynomial curve enables free selection of turbines
- Free choice of installation site

Reliability

- Galvanic Isolation
- In accordance with almost all European power supply line guidelines

Reliable

- Worldwide SMA Service including Serviceline
- Comprehensive SMA warranty program

WINDY BOY 1100LV

The solution for low generator voltage

The Windy Boy 1100LV is the perfect solution for the smallest wind energy systems with low generator voltage: turbines with a nominal voltage of 24 or 48 V can be connected without an additional voltage converter. The programmable polynomial curve gives you full flexibility for choosing the turbine, while its weatherproof enclosure and the wide temperature range allow for installation at nearly any location. As an inverter for wind energy systems, the Windy Boy is optimally adjusted to fast and frequent load changes. Its minimum internal consumption during a calm also increases the yield, which you can monitor at any time using the display and different communication interfaces.

Technical data	Windy Boy 1100LV	
Input (DC)		
Max. DC power	1210 W	
Recommended generator power at 2500 / 5000 full-load hours per year	1000 W / 900 W	
Max. DC voltage	60 V	
Min. open circuit voltage for activating "Turbine Mode"	25 V	
Operating range "Turbine Mode"	21 V - 60 V	
Max. input current	62 A	
Output (AC)		
AC nominal power	1000 W	
Max. AC power	1100 W	
Max. output current	5 A	
Nominal AC voltage / AC operating range	220 V, 230 V, 240 V / 180 V - 260 V	
AC grid frequency / range	50 Hz, 60 Hz / ± 4.5 Hz	
Power factor (cos ϕ)	1	
Phase conductors / connection phases	1 / 1	
Efficiency		
Max. efficiency / Euro-Eta	92.0 % / 90.4 %	
Protective devices		
DC reverse-polarity protection	●	
AC short-circuit protection	●	
Ground fault monitoring	●	
Grid monitoring (SMA Grid Guard)	●	
Galvanically isolated	●	
General data		
Dimensions (W / H / D) in mm	434 / 295 / 214	
Weight	29 kg	
Operation temperature range	-25 °C ... +60 °C	
Internal consumption: Operation / standby	< 5 W / 0.1 W	
Topology	LF transformer	
Cooling concept	Convection	
Electronics protection rating / connection area (per IEC 60529)	IP65 / IP65	
Climatic category (per IEC 60721)	4K4H	
Features		
DC connection: screw terminal	●	
AC connection: plug connector	●	
Display: text line / graphic	●/-	
Interfaces: RS485 / Bluetooth®	○/○	
Warranty: 5 years / 10 years	●/○	
Certificates and permits	CE, VDE0126-1-1, G83/1, CER/06/190, DK 5940, RD 1663, AS4777, EN 50438	
<p>● Standard features ○ Optional features – Not available / Data at nominal conditions</p>		
Type name	WB 1100LV	

