

Maximum yield

- > Specially designed for small wind energy systems
- > Optimized for best yields in both weak as well as strong wind regions

Easy Installation

- > Free choice of turbine due to programmable power curve
- > Free choice of mounting location

Safe operation

- > Electric separation
- > Certified for the most important countries of installation (SMA grid guard)
- > Worldwide SMA service and SMA Service Line
- > Comprehensive SMA warranty program



WINDY BOY 1100LV

The Low Voltage Device

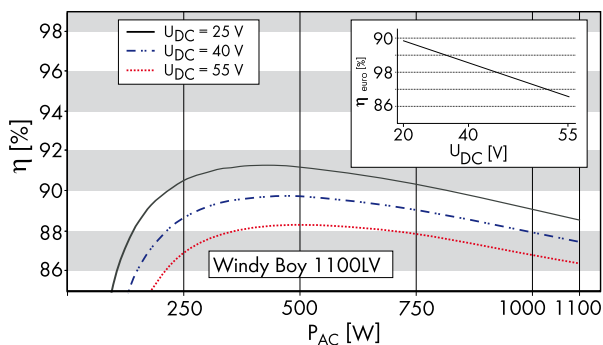
The Windy Boy 1100LV is the perfect solution for the smallest wind energy systems with low generator voltage: turbines with a nominal voltage of 24 or 48 V can be connected without an additional voltage transformer. The programmable power gives you full flexibility for choosing the turbine, its weatherproof housing 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

	WB 1100LV	
Input (DC)		
Max. DC power	1210 W	
Recommended generator power at 2500 full-load hours per year	1000 W	
Recommended generator power at 5000 full-load hours per year	900 W	
Max DC voltage	60 V	
Min. open circuit voltage for activating "Turbine Mode"	25 V	
"Turbine Mode" operating range	21 V - 60 V	
Max. input current	62 A	
Output (AC)		
Nominal AC output power	1000 W	
Max. AC output power	1100 W	
Max. output current	5 A	
Nominal AC voltage / AC operating range	220 V - 240 V / 180 V - 260 V	
AC grid frequency (self-adjusting) / range	50 Hz / 60 Hz / ± 4.5 Hz	
Power factor (cos ϕ)	1	
AC connection	single-phase	
Efficiency		
Max. efficiency	92.0%	
Euro ETA	90.0%	
Protective equipment		
DC reverse polarity protection	●	
AC short-circuit protection	●	
Ground fault monitoring	●	
Grid monitoring (SMA grid guard)	●	
Electric separation	●	
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	Low frequency transformer	
Cooling concept	Convection	
Installation location: indoor / outdoor (IP65)	●/●	
Features		
DC connection: screw terminal	●	
AC connection: plug connector	●	
LCD display	●	
Cover color: red	●	
Interfaces: RS485 / radio	○/○	
Warranty: 5 years / 10 years	●/○	
Certificates and approvals	www.SMA.de	
● Standard ○ Optional	Values apply for nominal conditions - Version: February 2009	

Efficiency curve



Accessories

