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

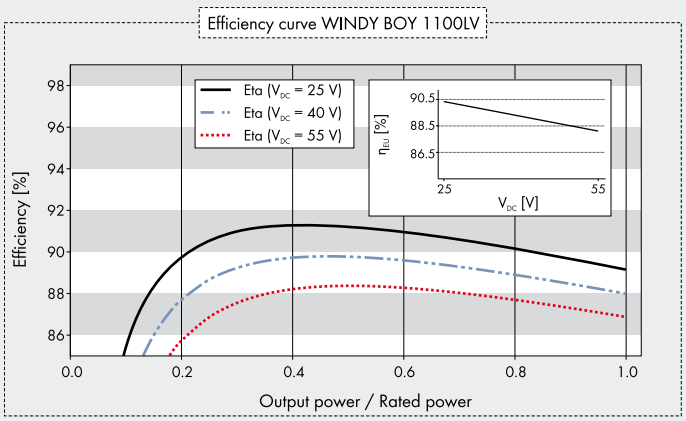
- Worldwide SMA Service including Serviceline
- Comprehensive SMA warranty program

WINDY BOY 1100LV

The solution for low array voltage

The Windy Boy 1100LV is the perfect solution for the smallest wind power systems: 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. The Windy Boy is optimally adjusted to fast and frequent load changes. Its minimum self-consumption during calm periods also increases the yield, which you can monitor at any time using the display.

Technical Data	Windy Boy 1100LV	
Input (DC)		
Max. DC power (@ cos φ=1)	1240 W	
Recommended generator power at 2500 / 5000 full load hours per year	1000 W / 900 W	
Max. input voltage / nominal DC voltage	60 V / 25 V	
Min. open-circuit voltage for activating "Turbine Mode"	25 V	
Voltage range in "Turbine Mode"	21 V – 60 V	
Max. input current	62 A	
Output (AC)		
Rated output power (@ 230 V, 50 Hz)	1000 W	
Max. apparent AC power	1100 VA	
Nominal AC voltage / range	220 V, 230 V, 240 V / 180 V – 260 V	
Power line frequency / range	50 Hz, 60 Hz / -4.5 Hz ... +4.5 Hz	
Rated power frequency / rated power voltage	50 Hz / 230 V	
Max. output current	5 A	
Power factor at rated output power	1	
Feed-in phases / connection phases	1 / 1	
Efficiency		
Max. efficiency / European efficiency	92 % / 90.4 %	
Protection		
Ground fault monitoring / grid monitoring	● / ●	
DC reverse polarity protection / AC short-circuit current capability / galvanically isolated	● / ● / ●	
General Data		
Dimensions (W / H / D)	434 / 295 / 214 mm (17 / 11.6 / 9.3 inch)	
Weight	28 kg / 61.7 lb	
Operating temperature range	-25 °C ... +60 °C / -13 °F ... +140 °F	
Noise emission	33 db(A)	
Topology	LF transformer	
Cooling concept	Convection	
Protection class of electronics / connection area (according to IEC 60529)	IP65 / IP65	
Climatic category (according to IEC 60721-3-4)	4K4H	
Maximum permissible value for relative humidity (non-condensing)	100 %	
Features		
DC terminal	SUNCLIX	
AC terminal	Connector	
Display	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	
● Standard features ○ Optional features – Not available		
Type designation	WB 1100LV	



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