

## A new generation of wind generator

we are pleased to present, in addition to the successful whispering blades „spb<sup>Ω</sup> -Silent Power Blades“, the appropriate, new designed wind generator **SILENTWIND 400**

**safe – quiet – efficient**



### **The main advantages are:**

The Silentwind offers maximum safety and efficiency with minimum noise emission.

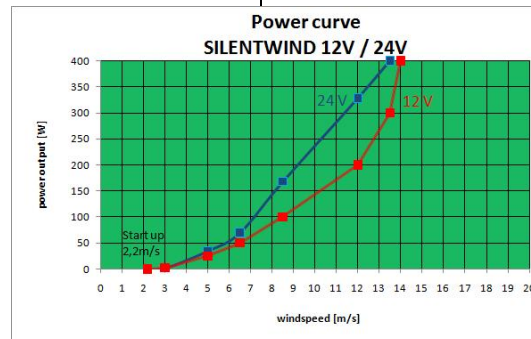
It is durable and requires little maintenance due to being equipped with high quality components.

External Hybrid-Charge Controller with Multi-Function Display for wind- and solar-energy.

Universal application for low-, middle- and high wind speeds.

## Technical Data

|  |  |
|--|--|
| generator-type                                       | permanent magnet, 3-phase AC               |
| rated voltage  | 12 VDC or 24VDC                            |
| rated power output                                   | 400 Watt                                   |
| rated windspeed                                      | 14m/s / 13,5 m/s                           |
| start-up windspeed                                   | 2,2 m/s                                    |
| start-up charging                                    | 3 m/s                                      |
| security check in the wind tunnel                    | 122 km/h without any objections            |
| rotor-diameter                                       | 1,15m                                      |
| quantity of blades                                   | 3  |
| weight of blade                                      | 140g / blade                               |
| rotor-blade material                                 | CFK–handlaminated                          |
| rotation speed                                       | 12V: 480 – 1420 rpm<br>24V: 480 – 1390 rpm |
| weight of generator                                  | 6,8kg                                      |
| packing dimension                                    | 740x370x220mm<br>(Pack. weight: 9,8kg)     |
| braking process                                      | electronical + manual stopp-switch         |
| hybrid charge controller with multi-function-display |  |
| system voltage                                       | 12/24 VDC                                  |
| max. power input windgenerator                       | 600W / 30A                                 |
| max. power input solar panel                         | 150Wp / 10A                                |



## Fields of application

**Off-grid application**

**Sailing boats**

**Charging station for electro-cars**

**Holiday homes**

**Wireless LAN – Access – Points**

**Research units**

**Projects in developing countries**

**Traffic management systems**

**Emergency systems**

**Street lamps**

**etc.**



## Quality features

- 3-phase brushless generator with a rated power of 400 Watt
- Weight only 6,8kg
- With handlaminated, UV-resistant carbonfiber (CFK) – rotorblades: successfully tested in the windtunnel at hurricane speed of 122 km/h, creating 5480 rpm with sonic velocity at the tips of the blades
- very good start-up performance due to a low cogging torque at 2,2m/s wind speed
- fast charging start-up at 3m/s
- universal application at low-, middle- and high wind speeds possible
- aerodynamic design from aircraft-engineering
- low noise emission
- durable and low maintenance due to external controller and high-quality components
- External Hybrid – Charge controller with LCD-Display for all relevant operational data as W, A, V, Ah, kWh and with the option to connect a 150Wp solarpanel is on the list of enclosed parts



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## **SILENTWIND 12V / 24V**



The appropriate wind generator for  
the successful blue  
**whispering blades**

