

## quality features

3-phase brushless AC-generator with permanent magnets

Available in 12V / 24V or 48V

Weight only 6,8kg

Low noise emission

With hand laminated, UV-resistant carbon fiber (CFRP) – rotor blades: successfully tested in the wind tunnel at hurricane wind-speed of 122 km/h, creating 5480 rpm with sonic velocity at the blade-tips

Very good start-up performance due to a low cogging torque at 2,2m/s wind speed

Fast charging start-up

Universal application at low-, middle- and high wind speeds

For marine- and land-use and professional applications

Durable and low maintenance

Inclusive with an external Hybrid – Charge Controller with LCD - Display for all relevant operational data as W, A, V, Ah, kWh and with the option to connect up to 180Wp solar panels



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safe  
efficient  
quiet



A new generation of wind turbine  
with silent power blades

# a new generation of silentwind

Due to our continuous improvement process, we are happy to present you our revised wind generator SILENTWIND 400+:

**safe - quiet - efficient**



## The main improvements are:

Higher efficiency due to earlier charging start-up.

Faster wind tracking and stable operating performance due to an enlarged wind-deflector.

Additional body bearing for a more precise guidance of the wind generator and smoother operating.

Reinforced mast support for higher safety reserves under strong winds.



## technical data

generator-type	permanent magnet, 3-phase AC
rated voltage	12 / 24 / 48 VDC
rated power output	420W / 450W / 500W
rated wind speed	14,5m/s
start-up wind speed	2,2 m/s
start-up charging	~2.8 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	± 150g / blade
rotor-blade material	CFRP-handlaminated
rotation speed of range of loading	550 - 1700 rpm
weight of generator	6,8kg
packing dimension	780x400x210mm
packing weight	10kg
braking process	electronical / manual stop-switch

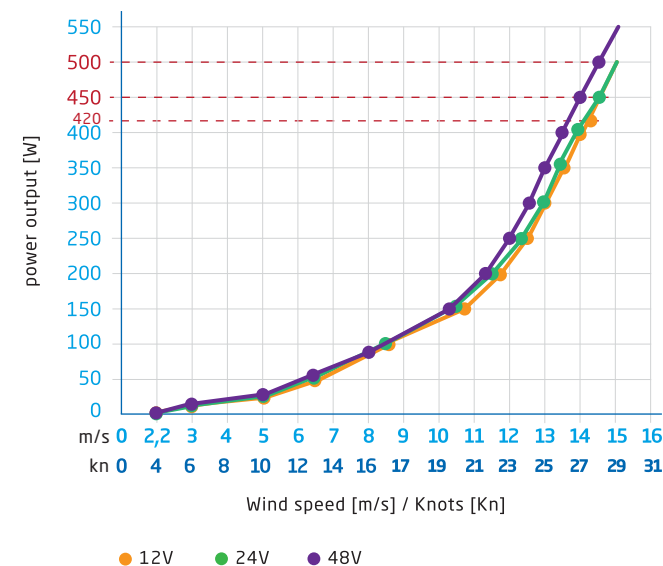
## hybrid charge controller with multi-function-display

system voltage	12/24 VDC
max. power input wind generator	450W / 30A
max. power input solar panel	180Wp / 10A
display information	V, A, W, Ah, kWh

## Fields of application

Sailing boats  
 Off-grid application  
 Net-Grid connection (48V)  
 Charging stations  
 Holiday homes  
 Wireless LAN - Access - Points  
 Research and monitoring units  
 Projects in developing countries  
 Traffic management systems  
 Emergency systems  
 Street lamps  
 etc.

## power curve



\* measured in the wind tunnel with laminar wind.