

This new-design wind-generator is under testing since one year in collaboration with MACIF Design Team with the goal to achieve **full autonomy** on their giant trimaran.

We applied our knowledge from well-proven hydrogenerator technology to transpose its efficiency to wind generation. The result is a powerful and lightweight windgenerator. The prototype installed on MACIF trimaran showed great durability during *François Gabart's* solo-round-the-world record.

Compared to conventionnal wind-generators **this new design offers unique advantages for «racing» use :**

- + High stability in turbulences and waves
- + Waterproof
- + Ultra light thanks to brushless alternator technology
- + Storm mode to operate in 30-50 knots range
- + Aerodynamic design : unperceivable drag, not affecting boat speed
- + 120W production (10A in 12Vcc) at 20 knots

**+ high stability :** due to downwind design (= propeller at the rear), the turbine is stable by construction and do not need a stabilyzer or a tail fin. It follows the stream just as our hydrogenerators follow the waterflow and produces a very stable output.

**+ high performance :** thanks to this stability, the «real life» net power is well in agreement with laboratory data.

**+ waterproof :** oil-lubricated alternator with hi-tech seals

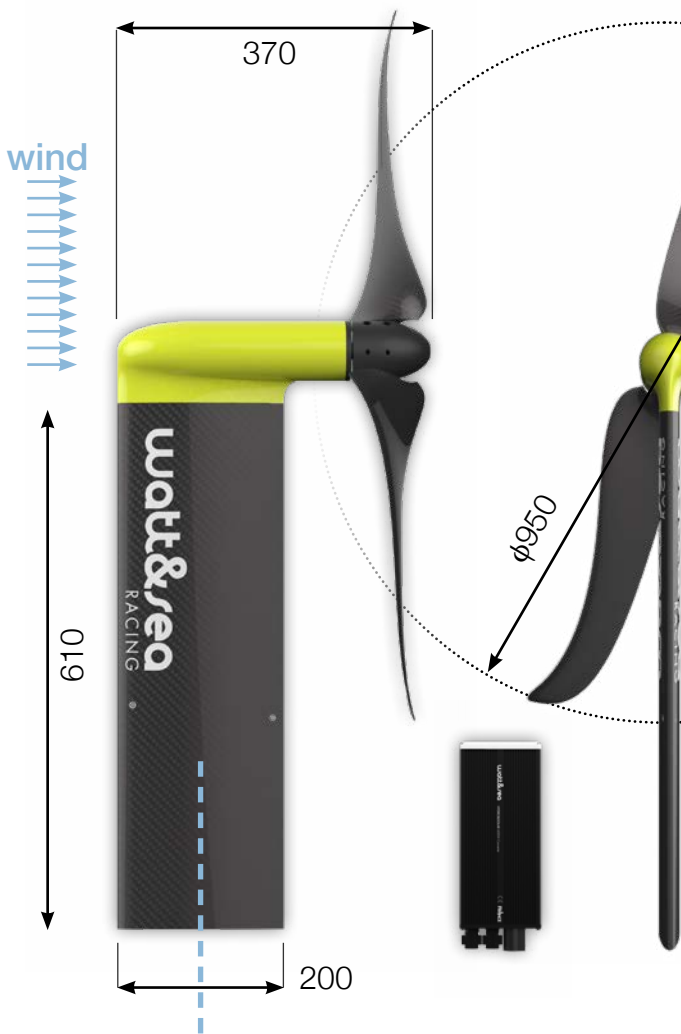
**+ high wind range : «storm mode»** selectable on the converter to withstand winds up to 50 knots and have power in any conditions.

**+ low drag :** blades have been specially designed to achieve the lowest drag possible and ensure quiet working.

**+ safer :** on sailing multihulls the blades are always turned to the back so that the turbine is easy to handle from the leg.



## DIMENSIONS (mm)



suggested pivot location  
( the windgenerator is provided without pivot  
and slipping contacts )

## TECHNICAL SPECIFICATIONS

Start-up wind speed*	17 knots
Working wind range	13-35 knots
Power at 20 knots	120 W
Power at 25 knots	250 W
Power at 30 knots	450 W
Max wind in classic mode	35 knots
Max wind in storm mode	55 knots
Output	12/24V auto 48V optional
Blade Material	pre-preg carbon
Wing Material	pre-preg carbon or aluminium
Generator weight	5.2 kg / 6.2 kg
Converter weight	1.5 kg

(\*) minimum speed to overcome seals frictionnal torque

## POWER CURVES

