



PRAMAC small wind generators are suitable for a variety of residential homes, tourist resorts, streetlights and agricultural structure applications. They effectively lower energy cost and reduce the impact on the environment by combining efficiency and design.

This is a smart way to convert wind energy into electricity and satisfy everyday energy needs through an extremely efficient and, at the same time, aesthetically appealing and noiseless tool.

PRAMAC Wind Generators are **Vertical Axis Turbines** (Darrieus H-shape type), since:

- **noiseless** (unlike the **Horizontal Axis Wind Turbines**)
- the **function** is **independent from wind direction** (unlike the HAWT)
- this choice gives **more freedom** to S'ARCK' design.

Moreover they are very **small in size**.

REVOLUTION
STARTS
AT HOME

*PRAMAC wind turbines
are silent.*



The most direct and “smart” way to directly operate for a better and cleaner world, free from “oil slavery”.



- **Useful tool**
(from a technical point of view, it is efficient and state-of-the-art; it has a well defined function)
- **Economically profitable**
(a very important and timely factor in the consumption crisis affecting us today)
- **Competitively priced with a variety of sizes to select from**

CARBON FOOTPRINT reduction.

*A personal contribution to the planet.
A symbol of my “ecological conscience”.
A “beautiful” object to furnish my home.
A S+ARCK’s model to be shown.*

The first two models are available from **PRAMAC**:

- *a **Twin Blades** model: WT400W*
- *a **Triple Blades** model: WT1kW*





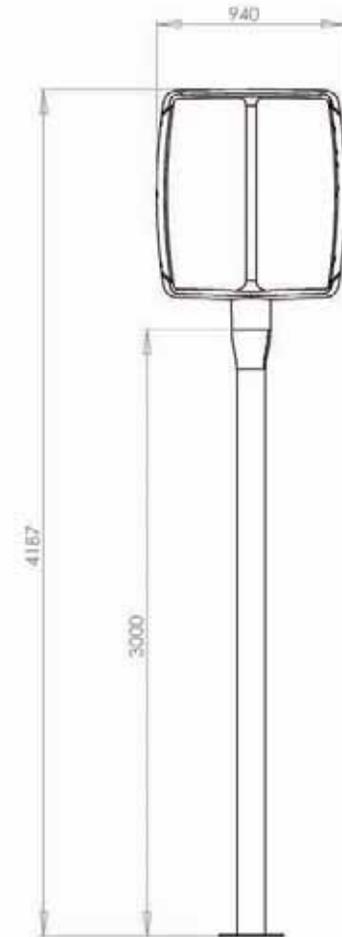
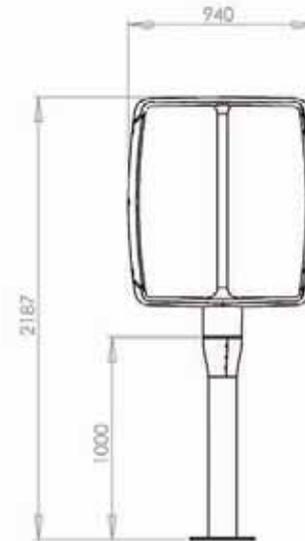
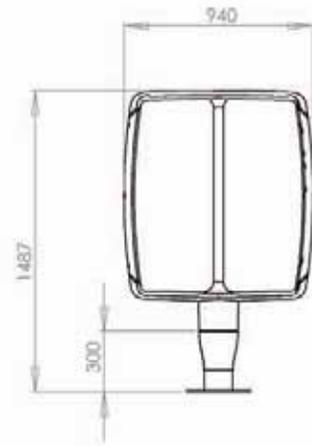


Rotor

Darrieus rotor type	2-blades
Power output at wind speed 10 m/s	110W
Power output at wind speed 15 m/s	400W
Cut-in wind speed	3 m/s
Cut-off wind speed	15 m/s
Diameter x height	0,9 m x 0,9 m
Sweep area	0,81 m ²
Rotor weight (alternator included)	26 Kg
Braking system	passive

Alternator

Type	Permanent magnets
Phase number	3



Twin Blades WT400W

Transparency, an idea created in the air.

A complete innovative design that utilizes less weight and size for superior performance.

Derating

At high temperatures and/or high-altitude installations, the air density drops and the turbine may generate less than rated power. For high-altitude installation, please estimate approximate 1% loss of power for every 100m above sea level.

The wind generator has been designed in compliance with IEC 61400-2, class IV.

The values indicated below refer to the following conditions:
 Temperature: -20/+50°C
 Humidity: <95%
 Air density: 1.225 kg/m³
 Solar radiation: 1000 W/m²



Twin Blades WT400W

Tools and optionals.

Product

- 1.**
Rotor and Alternator
(with permanent magnets)



Accessories

- 2.** **Standing Pole 0,3 m** (11,5 Kg)
3. **Standing Pole 1 m** (17 Kg)
4. **Standing Pole 3 m** (56,5 Kg)
- 5.** **WIND BOX 400 IP66 GC**
DC Interface and safety brake
- 6.** **Inverter Windy Boy 1100 SMA**
Dedicated device for grid connection
- 7.** **Diversion Load**
- 8.** **Braking Resistance**
- 9.** **Passive Braking Block+Protection**

Optionals

- 10.** **Foundation Kit**

Colours

Transparent

Pole Colour

- Warm Gray 2 U



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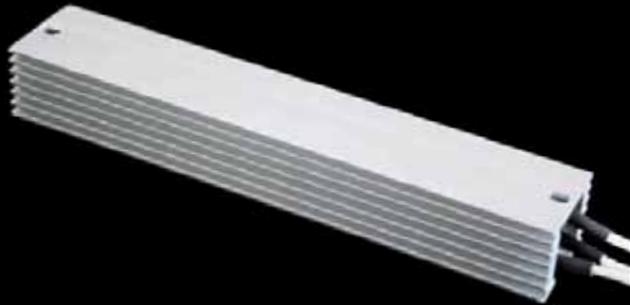
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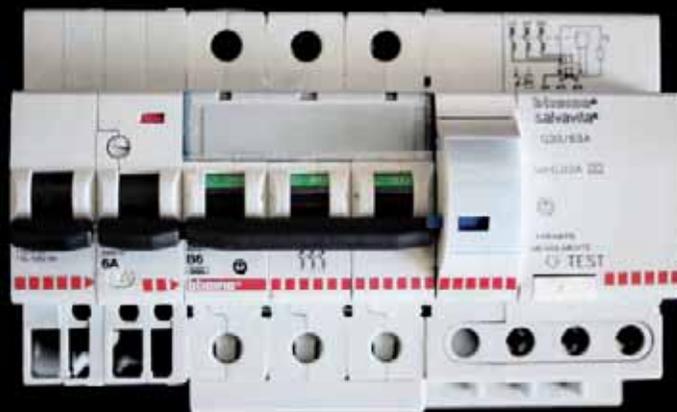
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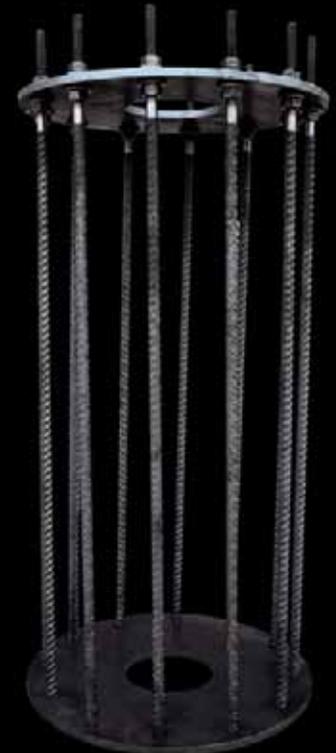
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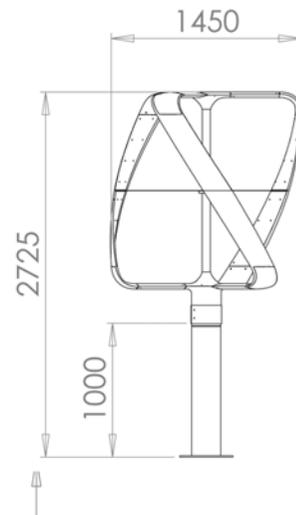
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Rotor

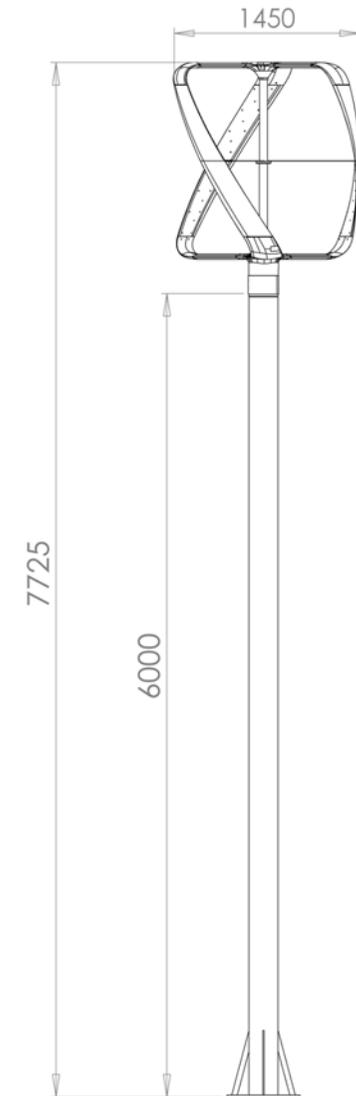
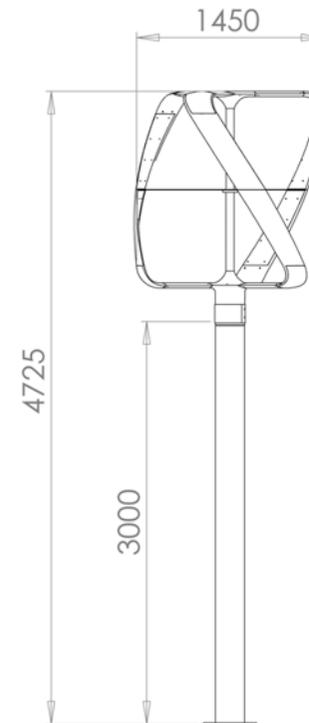
Darrieus rotor type	3-blades
Power output at wind speed 10 m/s	250W
Power output at wind speed 15 m/s	1000W
Cut-in wind speed	3 m/s
Cut-off wind speed	15 m/s
Diameter x height	1,45 m x 1,45 m
Sweep area	2,10 m ²
Rotor weight (alternator included)	65 Kg
Braking system	passive

Acoustic pression LpA from 4 mt	52 dB(A)
Acoustic power LWA	72 dB(A)



Alternator

Type	Permanent magnets
Phase number	3



Triple Blades WT1KW

The air round and round and round.

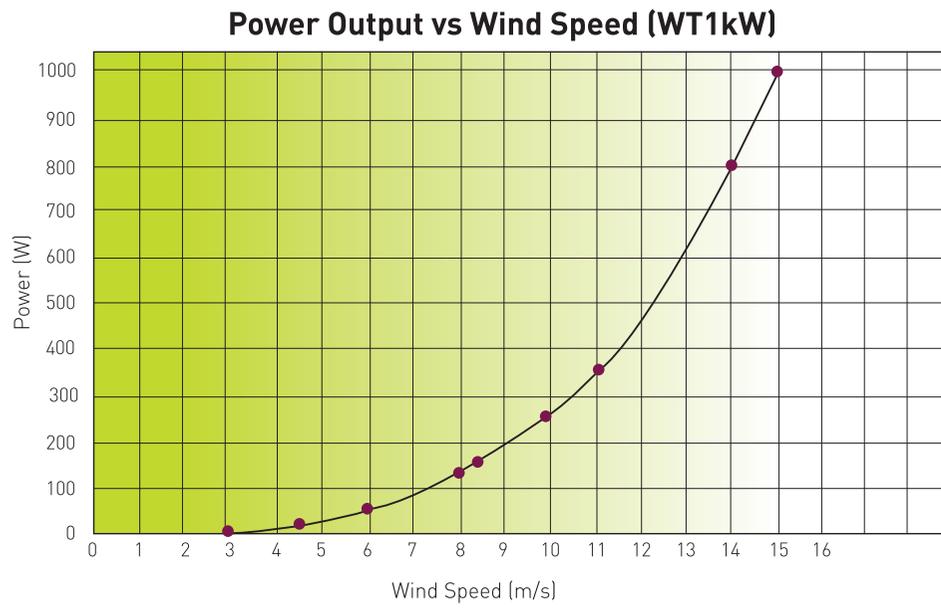
A complete innovative design that utilizes less weight and size for superior performance.

Derating

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The wind generator has been designed in compliance with IEC 61400-2, class IV.

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 Air density: 1.225 kg/m³
 Solar radiation: 1000 W/m²



Triple Blades WT1KW

Tools and optionals.

Product

- 1.**
Rotor and alternator
(with permanent magnets)



Accessories

- 2.** *Standing Pole 1 m (25 Kg)*
3. *Standing Pole 3 m (88 Kg)*
4. *Standing Pole 6 m (189 Kg)*
- 5.** *WIND BOX 1000 IP66 GC*
DC Interface and safety brake
- 6.** *Inverter Windy Boy 1100 SMA*
Dedicated device for grid connection
- 7.** *Diversion Load*
- 8.** *Braking Resistance*
- 9.** *Passive Braking Block+Protection*

Optionals

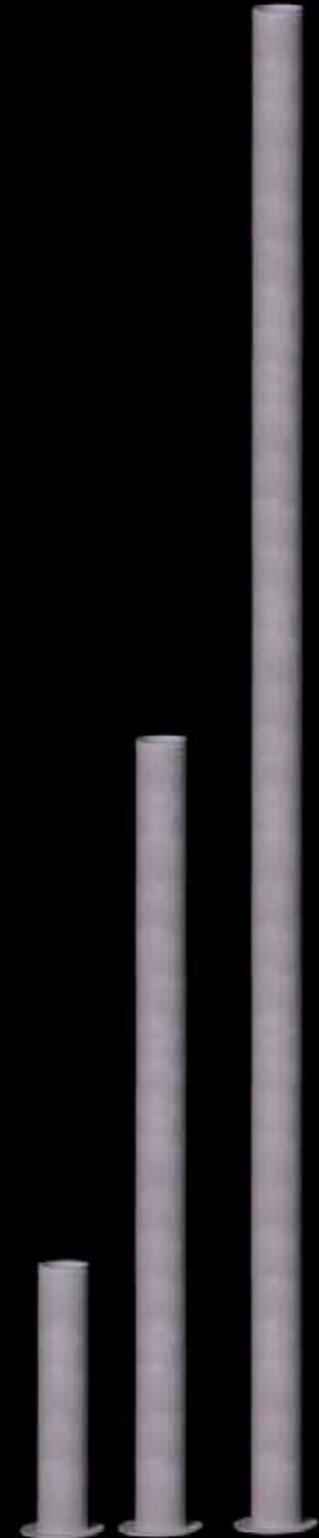
- 10.** *Foundation Kit*
11. *FLAT ROOF support kit*

Colours

- *Warm Gray 2 U*

- *Warm Gray 11 C*


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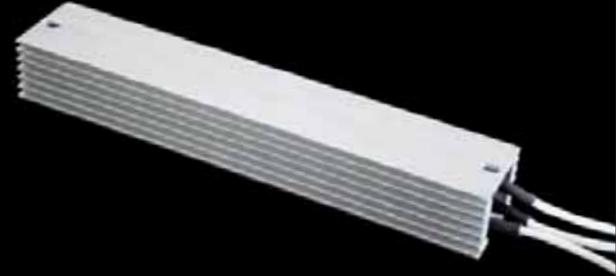
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*PRAMAC's wind turbines
are independent
of wind direction.*

