



WIND 10 Wind Turbine

The new wind turbine WIND 10 presents a new alternative of high performance wind converters in a World where the concept SUSTAINABLE is increasingly becoming more important.

GENERAL ESPECIFICATIONS:

Rated Power	10.000 W
Rotor Diameter	5 m
Voltage	230/120 V
Weight	180 Kg
Tower Type	Galvanized steel (6 m or higher)
Cut-in Wind Speed	3 m/s
Cut-off Wind Speed	24 m/s

DESCRIPTION:

- Composite blades of fiberglass - epoxy
- Main turbine parts made of aluminum
- Exclusive EuroEner permanent magnet generator
- Very low maintenance
- Active and passive brake control system
- Possible manual operation from control unit
- Suitable for offshore applications
- Approximate weight without tower 180kg

The unique design of the WIND 10 makes this wind turbine especially remarkable in wind systems connected to the grid. Although the wind generator is designed to operate at nominal power of 10 kW, its three phase generator is able to deliver a maximum power of 20,4kW at 16 m/s wind speed. This outstanding performance is achieved as a result of an accurate and precise engineering phase focused in the efficiency, technology and innovation.

Other advantages:

- Adaptability to be connected to different grid types complying with different grid codes.
- Low noise emissions as a result of an optimal blade design with blade tip.
- High efficiency at low wind speeds.
- Low vibration emission.
- Aluminum castings providing low weight, high resistance and good heat dissipation.
- Suitable for Wind Class I (IEC61400)
- Maximum power of 20,4 kW for winds speeds above 16 m/s.

The 10 kW wind turbine manufactured by EuroEner is designed using advanced engineering techniques in aeronautics and mechanical design. The WIND 10 has been optimized to be the most versatile and efficient turbine of its category for sites with high wind speeds. It has a three blade turbine with specially developed airfoils and a three phase generator with permanent magnets and a embedded control system improving the performance of the turbine.

Main applications:

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| Microgeneration | Small wind farms |
| Maritime and harbours | Rural development |
| Off grid systems (Telecom towers, heating, pumping, lighting,) | |