myronwind®

OLYMPUS 1.5KW

Just let it spin

- Operates at independent wind speed direction.
- Grounding construction - (can last up to 30 years).
- Constructed by stainless steel.
- Patended system of inhibition flaps.
- Electromechanical brake system.
- Fully automatic operation and managing power through intellingent controller.
- Connection ability with inverter or battery charger.
- Emergency stop button.
- Supervisor function through wind meter.

CE

CERT
Inspection - Certification

MADE IN GREECE

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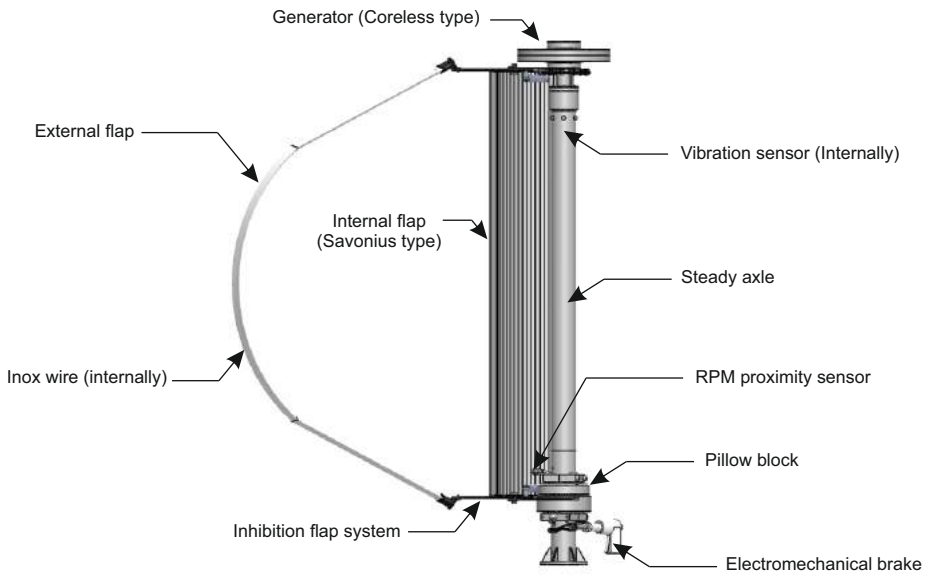
Main features



PMG motor: Latest technology three phase permanent magnet generator with double bearings installed.

Stable axle: Olympus series are the only wind turbines globally that has stable axle. That gives better stability and endurance on the entire structure.

External flaps: Are made by a special plastic and reinforced with carbon fiber. Internally comprise inox wire for holding the flap in a case of a fracture.

Internal flaps: Are made by stainless steel. They are used to start the rotation of the wind turbine at low wind speed.

Inhibition flap system: That is an innovative and patented (WO-A1-2008/053282) system for keeping the rpm stable. Its functionality is based on the centrifugal force applied on the external flap during the rotational of the wind turbine.

Vibration sensor: If that sensor activate, the wind turbine stops its functionality automatically.

RPM proximity sensor: It is used as a secondary safety command in a case of wind turbine over speed.

Lower pillow block: Heavy duty bearing. The specific pillow block takes all the load of the system, as a result the generator bearings takes very small loads which gives longer life to the generator.

Electromechanical brake: It is used to brake the wind turbine for full stop at specific situations. It is activated automatically by the controller unit. Also, can be activated by the user manually, by pressing the emergency stop button which is located on the controller unit.

Wind speed meter: It is used to automatically restart the wind turbine function after a full stop brake. Also, it is used as a secondary safety command for full stop brake during very high wind speed >18m/s.

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Technical characteristics

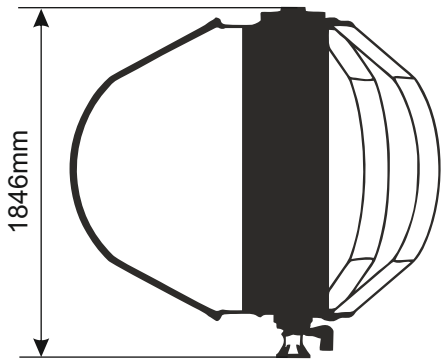
Generator type	PMG
Axle type	Vertical
Height	1.85 m
Diameter	2.6 m
Weight	112 kg
Scan area	3.04 m^2
Internal flap material	Stainless steel
External flap material	Special plastic and carbon fiber

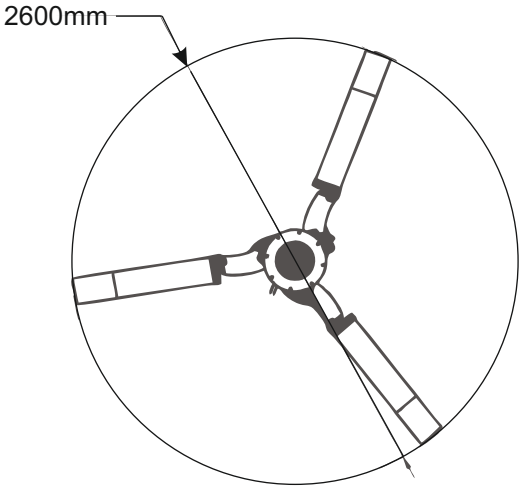
Wind turbine performance

Nominal power output	1500 Watt
Nominal rpm	450 rpm
Cut - in wind speed	3 m/s
Cut - out wind speed	17 m/s
Maximum survival wind speed	>50 m/s

Standards approval

EN 61400-1:2005+A1:2010
EN 61400-2:2006
EN 61400-12-1:2006
EN 61400-22:2011





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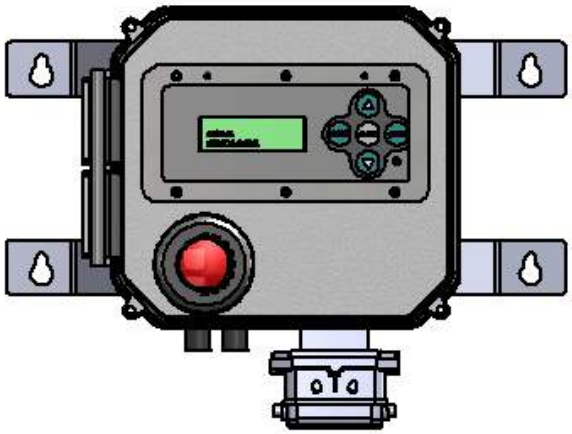
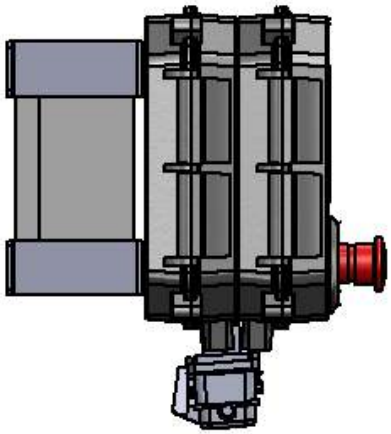
Controller characteristics

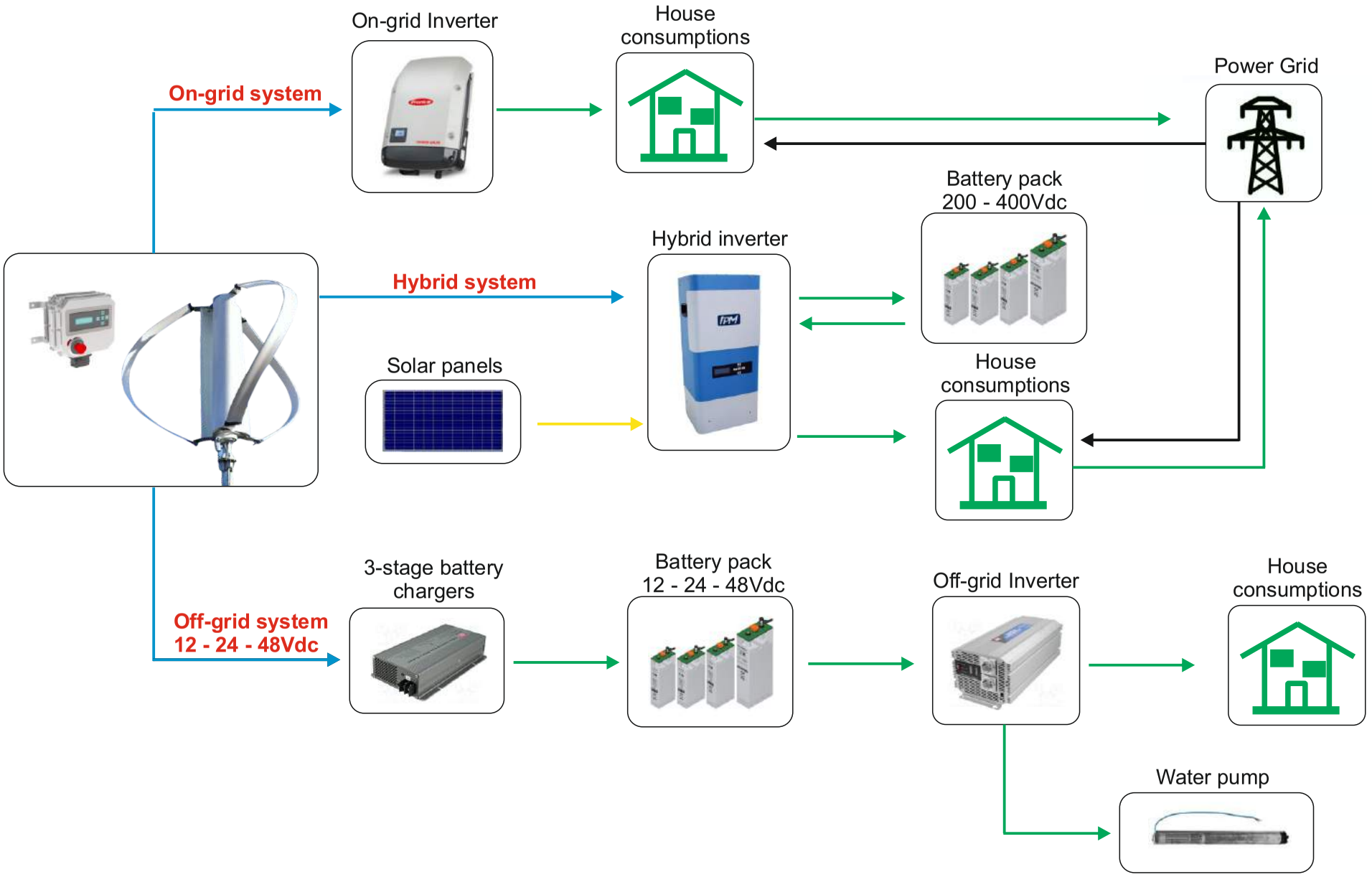
Material	Moulded aluminium
Dimensions	276 X 235 X 243 mm
Weight	10.8 kg
Degree of protection	IP 65
Operational temperature	- 30° to 85°C

Controller performance

Output voltage (Vout)	70 - 400 Vdc (adjustable)
Maximum output current (Iout)	20 Ampere
Control method	PWM
Dump load	Yes
Emergency stop button	Yes
Vibration sensor	Yes
Speed proximity sensor	Yes
Anemometer supervisory	Yes
Multi - display screen	Yes
Thermometer	Yes
Bluetooth / WiFi	Optional
Connectivity with inverter	Yes
Connectivity with battery charger	Yes (12/24/48Vdc)







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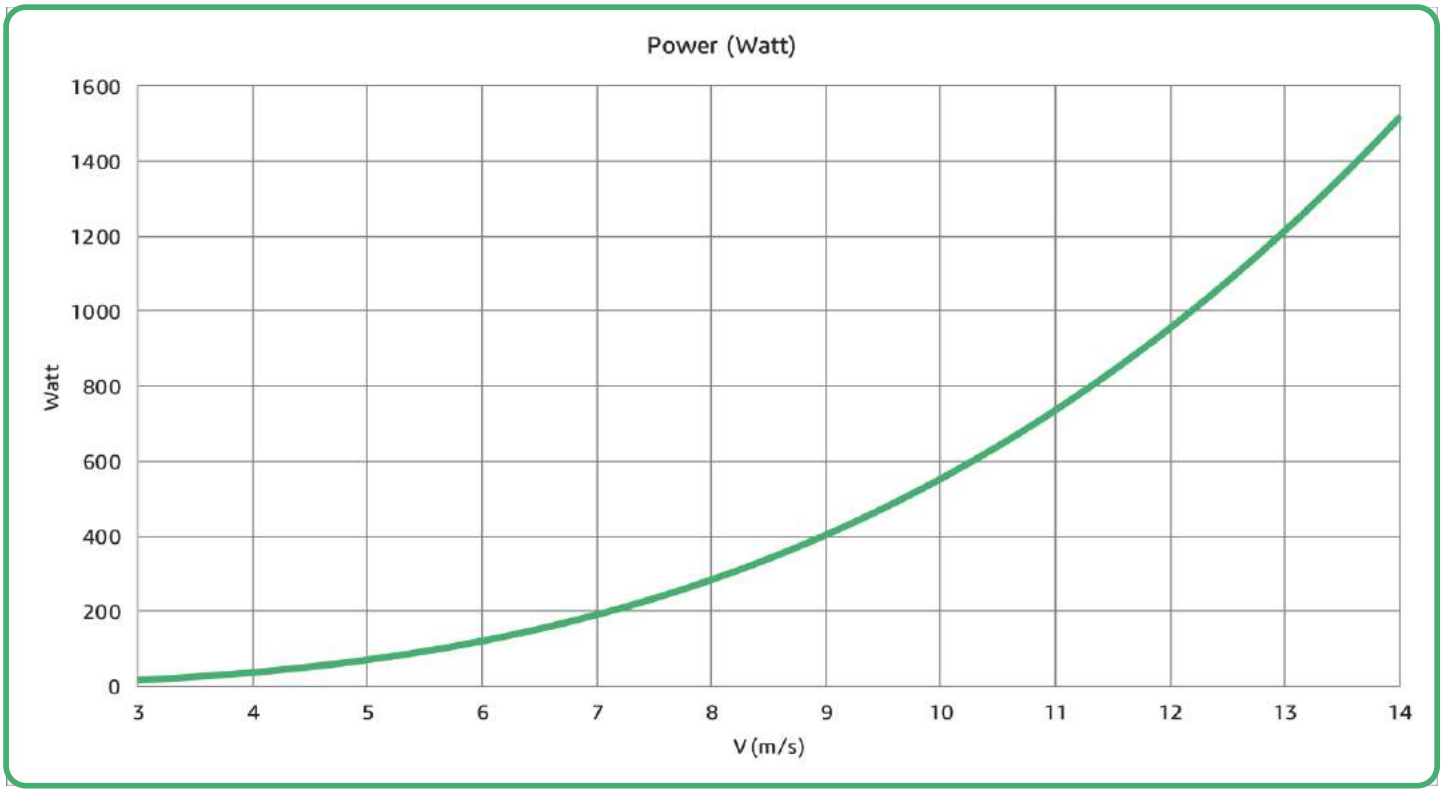

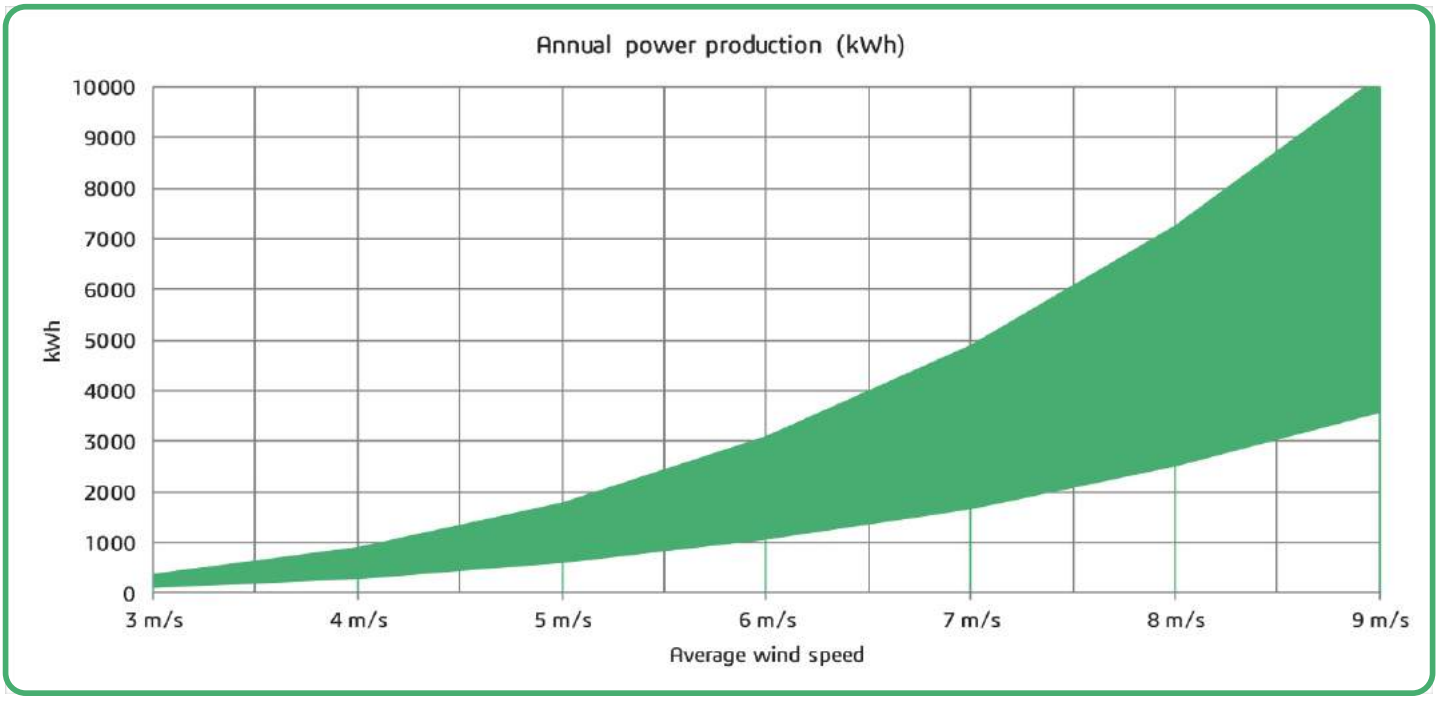

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Installation

Outdoor installation

Residential installation

Systems

Autonomus system (off-grid)

Output voltage system
12, 24, 48Vdc

Grid-tied system (on-grid)

Compatible Inverters:

- ABB Aurora uno 2.0 wind inverter
- Fronius Galvo 1.5 solar inverter
- Clean Energy Solutions IPM 5.0 hybrid inverter

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FANI TSAKOU & CO
Wind Generator Constructions

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