Leading Edge

Local Renewable Power Worldwide

Powerful
Quiet
Lightweight

LE-2000

The perfect turbine for **maximising annual energy yield** for grid-tie and battery charging systems

residential & industrial off-grid

Designed & manufactured in the UK

LE-2000 Features

LE-2000

Maximise **annual energy yield** for grid-tie and battery charging systems

Features:

Powerful
1100W at 8m/s (17.8mph), 2400W max

Flight control computer
Provides control in storm conditions

Lightweight turbine head
Easy installation with free-standing hydraulic towers

Downwind layout
Good yaw performance in turbulent conditions

Whispower™ Blades
Ensures low acoustic emissions

Robust design
Stainless steel & aluminium alloy with sealed for life bearings

Designed for longevity in the harshest environments

The LE-2000 is a robust downwind turbine that can generate between 1500kWh and 3000kWh of electricity per year, depending on average wind speed.

The 3.2m diameter rotor gives excellent energy yield at common wind speeds whilst the Flight Control Computer keeps the larger swept area under control and protected during high winds.

The high efficiency dual rotor axial flux alternator uses high strength neodymium iron boron magnets which results in low start up wind speed and high power conversion in all winds.

The battery charging LE-2000 is equipped with 230V power transmission from the turbine to the 'Flight Control Computer'. This means that thinner, cheaper transmission cable can be used to carry the power over long distances.

The LE-2000 is engineered to last - galvanised steel and stainless steel components are protected from the elements with aerospace grade coatings and anodising.

LE-2000 Technical Overview

Rotor diameter - 3.2 metres

Rotor type - 3-Blade downwind

Blade material - Glass reinforced Composite

Rated Output 1100W at 7.8m/s (17.4mph)

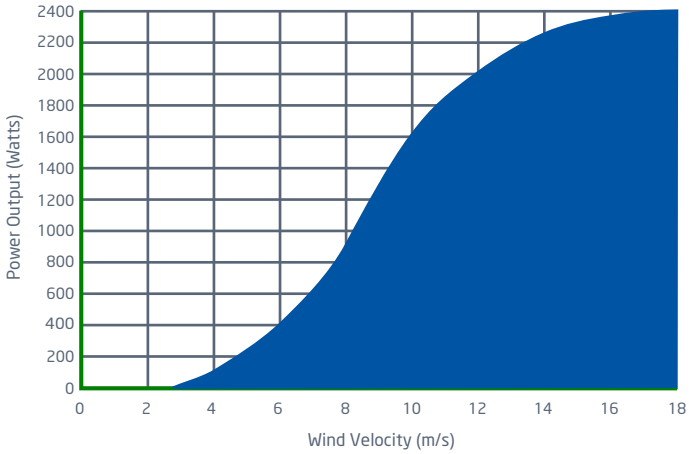
Peak output - 2400W

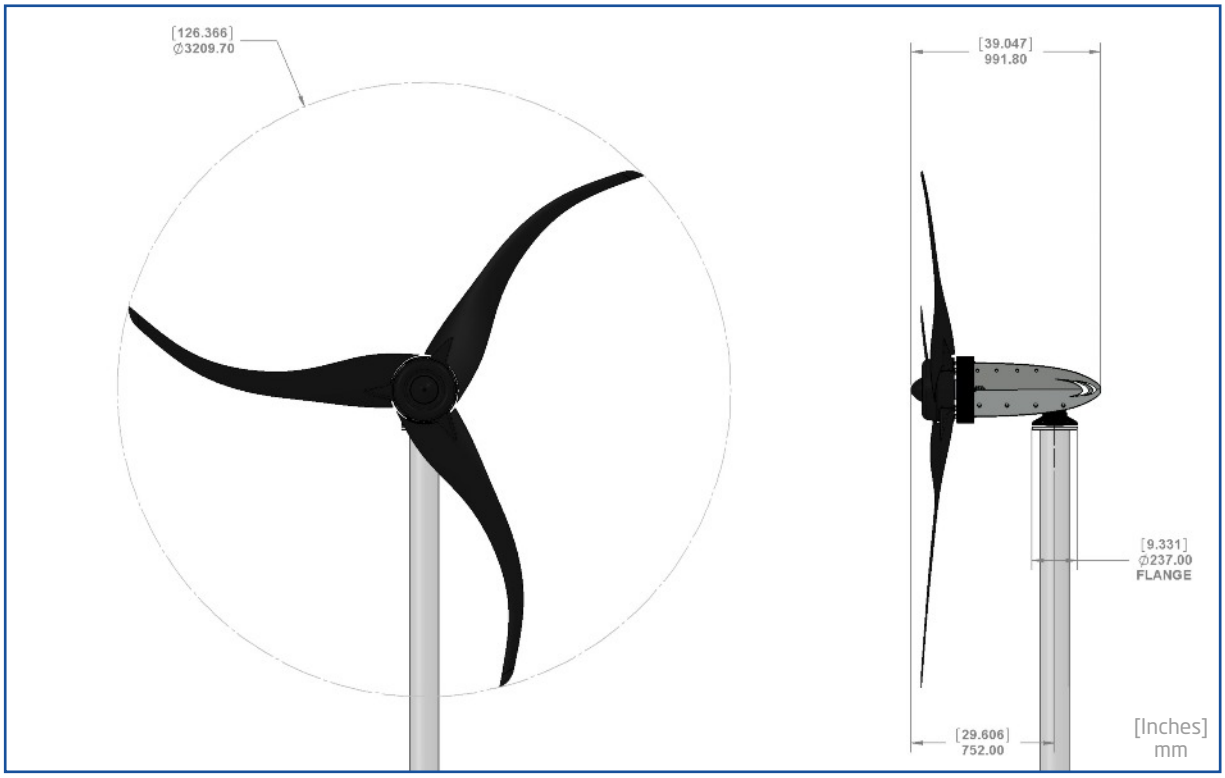
Cut-in speed - 3m/s (6.7mph)

Weight - 80Kg

Output voltage - 24V or 48V

Warranty - 2 years





The LE-2000 has a design life of 20 years, but due to its modular design and ease of maintenance, the turbine could easily exceed this.

In a typical stand alone system, the turbine sits on a tower and is connected to a battery pack via a run/stop switch that allows the turbine to be safely braked and electrically isolated from the circuit. In addition, a Flight Control Computer ensures the turbine is safely managed in storm conditions. The LE-2000 can be combined with Solar PV panels in 'power hungry' off-grid renewable energy systems.

residential & industrial off-grid

LE-2000 Applications

- **Off-grid**
- **Domestic power**
- **Battery charging**
- **Remote telemetry**
- **Telecommunications**

The LE-2000 is a downwind horizontal axis turbine that provides substantial amounts of power for off-grid systems or alternatively offset energy usage in a residential grid-connected system.

Wind turbine performance is subject to many factors. All output data contained in this document is indicative and actual turbine outputs will depend on the prevailing site and installation conditions.

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