

Powerful
Robust
Lightweight



LE-300 Extreme

Optimum power in challenging environments



Designed &
manufactured
in the UK

industrial off-grid

LE-300 Extreme - Features



LE-300

For applications where **high output** and **rugged design** are important

Features:

High outputs

85W at 8m/s (17.8mph), 300W max

Rugged

Withstands storm force winds where gusts can reach 45m/s (100mph)

Compact

With 1m rotor dia, the LE-300 Extreme can be installed in places where space is limited

Easy to deploy

Weighs just 6.5Kg

Piece of mind

2 year warranty

A winning combination of high output and rugged design for extreme locations

This compact and rugged horizontal axis turbine is considered to be the most powerful turbine for its size. All at an affordable price.

The LE-300 Extreme is designed around a unique low inertia axial flux generator which utilises Neodymium rare earth magnetic materials.

This alternator has zero 'cogging' which, together with its highly efficient and low 'TSR' Whispower blades, allow the turbine to deliver a higher output than the competition in high wind speeds.

The up-rated alternator has a cooler running temperature in storm force winds for added reliability. The power output levels off at 20m/s (45mph), preventing the turbine from spinning out of control yet still continue to produce power in high winds.

It is marine quality finished with fully lubricated sealed bearings, so little maintenance is required.

LE-300 Extreme - Technical

Rotor diameter - 1 metre

Rotor Type - 3-Blade upwind

Blade Material - Glass Reinforced, UV resistant Nylon

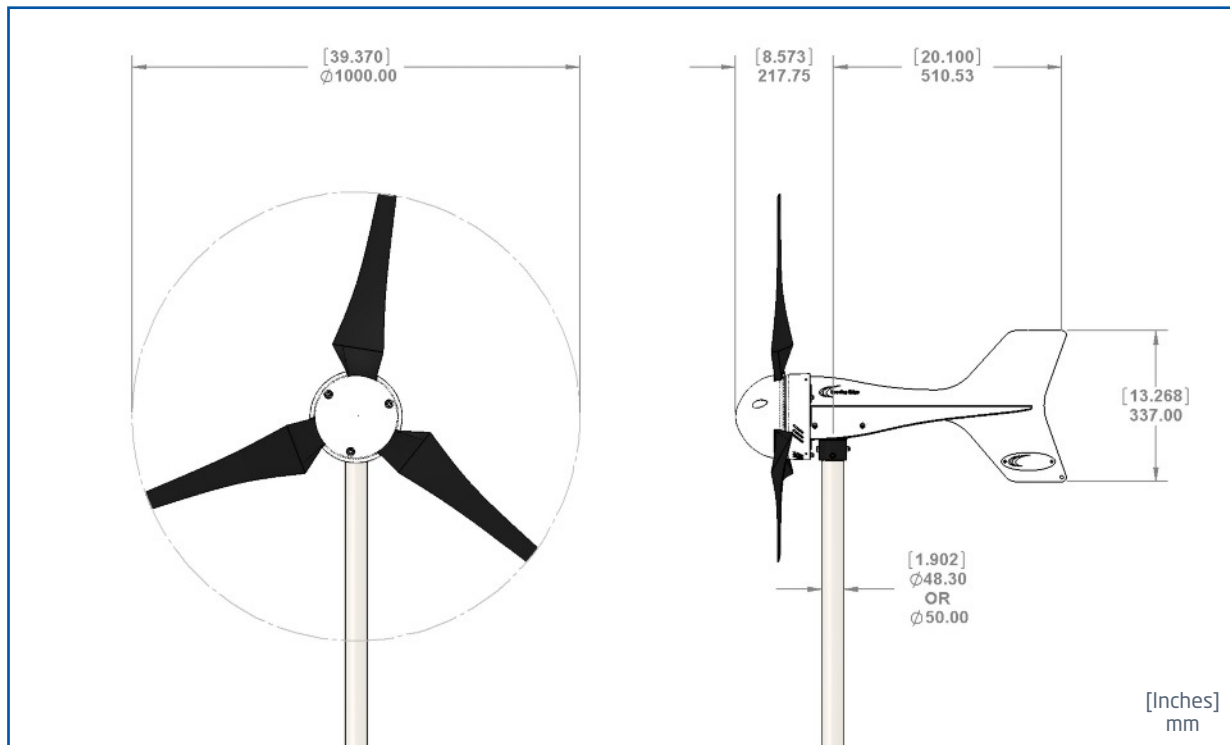
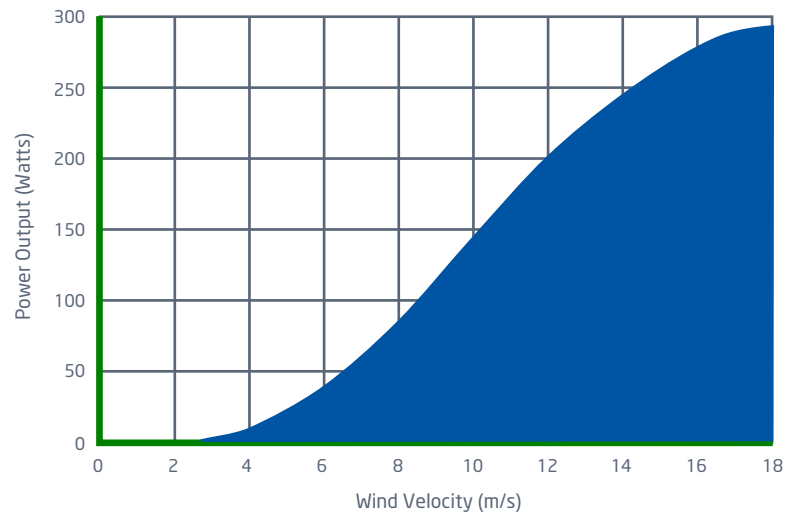
Rated output - 85W at 8m/s (18mph)

Peak output - 300W

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

Weight - 6Kg

DC output voltage - 12V, 24V or 48V



Optimisations for extreme environments

Up-rated alternator - The cooler running temperature gives added reliability in high winds.
External rectifier heat sink - This dissipates heat from the bridge rectifier to ensure optimum turbine efficiency even in high winds and decreases the loading on the rectifier unit.

Black chassis - In sub-zero temperatures, the black body absorbs UV light to help prevent ice build up.
Low temperature bearings - The turbine continues generating power at temperatures down to -40 degC.

LE-300 Extreme - Applications



- **Telemetry**
- **Telecommunications**
- **LED Lighting systems**
- **Road signage**
- **Off-grid**
- **Security**

Our LE-300 Extreme horizontal axis turbine is powerful yet robust enough to survive 45m/s (100mph) storm force winds. It can be found powering equipment in coastal areas, polar regions and up mountains.

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.

Your local distributor



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