

Local Power Worldwide

Powerful Robust Quiet

LE-450

Delivers **real power** in everyday winds

marine & industrial off-grid

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manufactured in the UK

LE-450 Features



LE-450

The **most powerful turbine** on the market today for its size

High outputs 105W at 8m/s (17.8mph), 450W max

Power in everyday winds In the cruising winds of 8 - 15 knots, 4 - 8m/s on land

Excellent value for money Delivers the highest output for the lowest cost

Easy to install Perfect where space is at a premium - yachts, telecoms towers and CCTV stations.

Robust Designed for marine environments

Quiet Quieter than the competition

Appreciated for being quiet thanks to our Whispower[™] blade design

The LE-450 is the most powerful turbine of its size, able to provide meaningful power at everyday wind speeds, whilst being tough and robust enough to withstand storm force winds. The LE-450's excellent power production stems from an exceptionally low start-up wind speed and superior transfer of power from the wind in everyday winds of 5-8m/s (11-18mph).

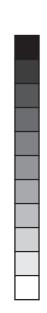
By fine tuning the characteristics of the alternator to work in perfect harmony with the operating parameters of the five rotor blades, the turbine can extract the right amount of torque, at the right RPM

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at a given wind speed, delivering a highly efficient transfer of power from the wind.

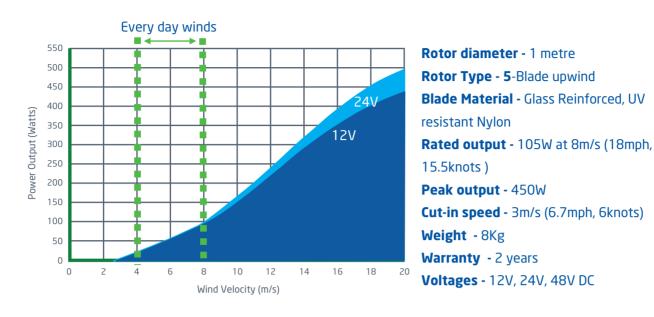
The LE-450 is precision engineered in the UK with only two moving parts so little maintenance is required during the turbine's long operating life. It is marine quality finished - the aluminium alloy chassis and stainless steel components are protected from the elements with aerospace grade coatings and anodising.

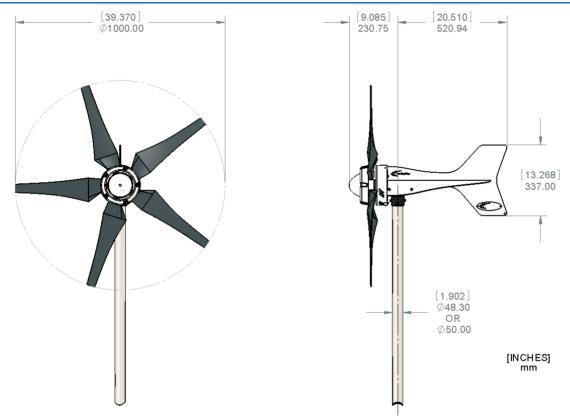
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LE-450 Technical Overview





Rotational speed - 0-2000 rpm Swept area - 0.785m² Tip speed ratio - 6 Typical noise level - 6dB(A) above background Alternator type - Direct drive, axial flux, 8 pole permanent magnet generator Design - 3-phase AC with rectification Mounting - 48.3mm/50mm outer diameter pole

Materials - Aluminium alloy chassis, aerospace grade surface finish, epoxy coated stator coils, sealed bearings

Control system - Stall regulation

Brake system - Electromagnetic braking switchYaw system - Heavy duty slip ring assembly,1043mm turning circle

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LE-450 Applications



- Marine
- Security
- Telecommunications
- LED Lighting systems
- Road signage
- Telemetry

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

Our LE-450 horizontal axis turbine addresses the increasing demand for power on small scale off-grid renewable energy systems and grid connected applications. It is as much at home on land as on the water in a variety of applications.



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