



Rugged  
Silent  
Reliable

## LE-v150 & LE-v150 Extreme

For battery charging applications in  
**challenging environments**



Designed &  
manufactured  
in the UK

marine & industrial off-grid

# LE-v150 - Features



## LE-v150

Ideal for **battery charging** applications where **space** is a premium

### Features:

#### Output

24W at 8m/s (17.8mph), 200W max

#### Storm proof

Designed to survive 35m/s (80mph) constant winds

#### Ideal for sub-zero temperatures

Keeps on working down to -40 degC

#### Small and compact

Easy to install in places where space is limited

#### Silent Operation

Noise produced is below that of background level

#### Lightweight

Weights just 13Kg

## Proven in some of the most challenging environments

**This robust and compact vertical axis turbine is designed for a host of different battery charging applications, ranging from marine to data communications and rural broadband.**

The LE-v150 uses a proven cross-ventilated 'savonius' rotor design which gives excellent power conversion for a vertical axis turbine of this size. It's design means it can survive storm force winds that would destroy a traditional horizontal wind turbine.

The turbine will receive the wind from 360 degrees without the need to yaw into position.

At 270mm wide, the turbine fits into spaces that a traditional horizontal axis turbine simply can't.

The LE-v150 has fully lubricated sealed bearings, so no greasing or maintenance is required. With only 1 moving part and no brushes or slip-rings to wear out, there is little to go wrong.

# LE-v150 - Technical Overview

**Rotor diameter** - 270mm

**Rotor Height** - 918mm

**Rotor Type** - 3-Blade savonious

**Blade Material** - Aluminium (Stainless Steel on Extreme version)

**Rated output** - 24W at 8m/s (18mph)

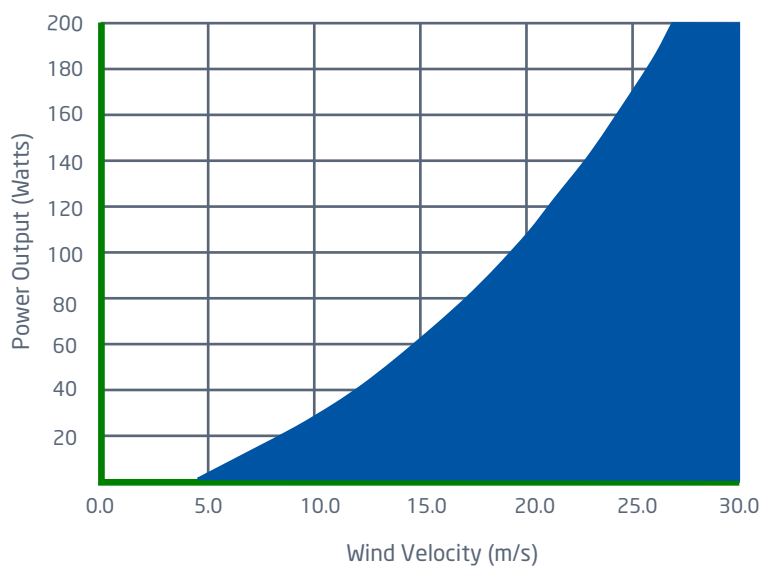
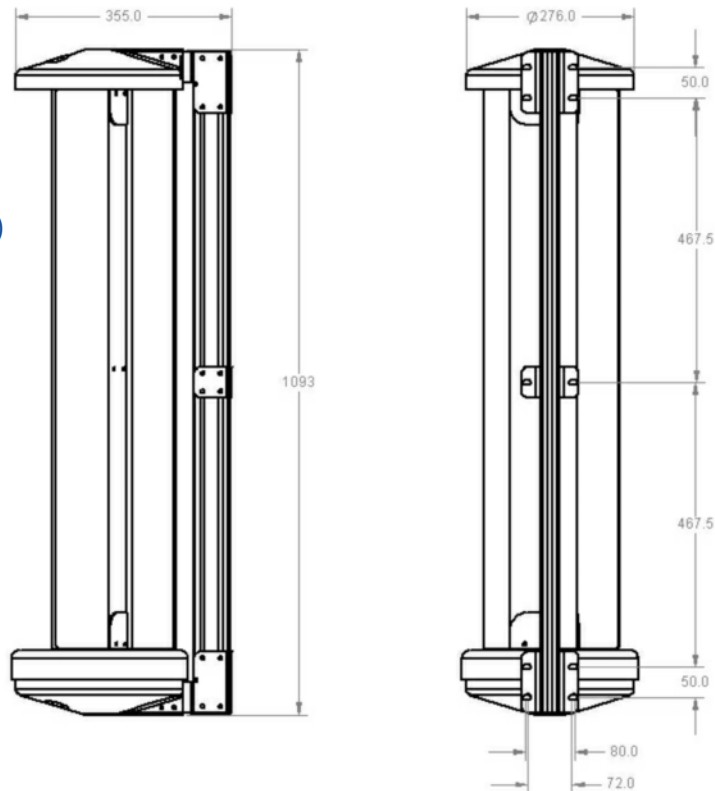
**Peak output** - 200W

**Cut-in speed** - 5m/s (11mph)

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

**Weight** - 13Kg

**Warranty** - 2 years



## LE-v150 Extreme

Where wind speeds regularly reach over 27m/s (60mph), the LE-v150 Extreme is the wind turbine of choice. It features enhancements that reduce the stress and fatigue on the blades during prolonged periods of storm force winds. The overall turbine RPM is reduced while

maintaining the same power output as the standard LE-v150. In sub-zero temperatures, the black body absorbs UV light to help prevent ice build up while the low-temperature bearings mean the turbine continues generating power at temperatures down to -40 degC.



# LE-v150 - Applications



- **Radio communications**
- **Data logging**
- **Rural broadband**
- **Marine**
- **Off-grid**
- **Security**

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



Leading Edge Turbines  
Skyrrid Farm | Pontrilas  
Herefordshire | HR2 0BW  
[www.leadingedgepower.com](http://www.leadingedgepower.com)

Call +44 (0)1981 241668  
Email [sales@leadingedgepower.com](mailto:sales@leadingedgepower.com)  
Copyright © 2019 Leading Edge Turbines