

Local Power Worldwide

LE-v150 Extreme

Ultra-tough for challenging environments



Whilst every effort has been made to ensure the accuracy of this specification, we cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

For pricing or any further information, please contact Omni Instruments Ltd.



Rugged

Stainless steel blades can survive winds of up to 35m/s (80mph)

Output

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

Reliable

Only one moving part so little can go wrong

Ideal for sub-zero temperatures

Keeps on working down to -40 degC

Small and compact

Easy to install in places where space is limited

Lightweight

Weighs 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 Extreme uses a proven cross-ventilated 'savourious' 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 of up to 80mph 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 Extreme has fully lubricated sealed bearings, so no greasing or maintenance is required. With only 1 moving part and no brushes or sliprings to wear out, there is little to go wrong.

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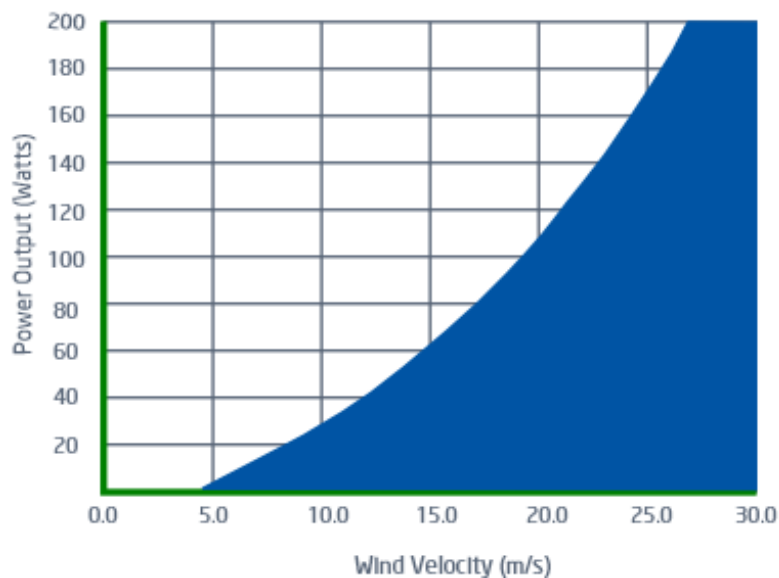
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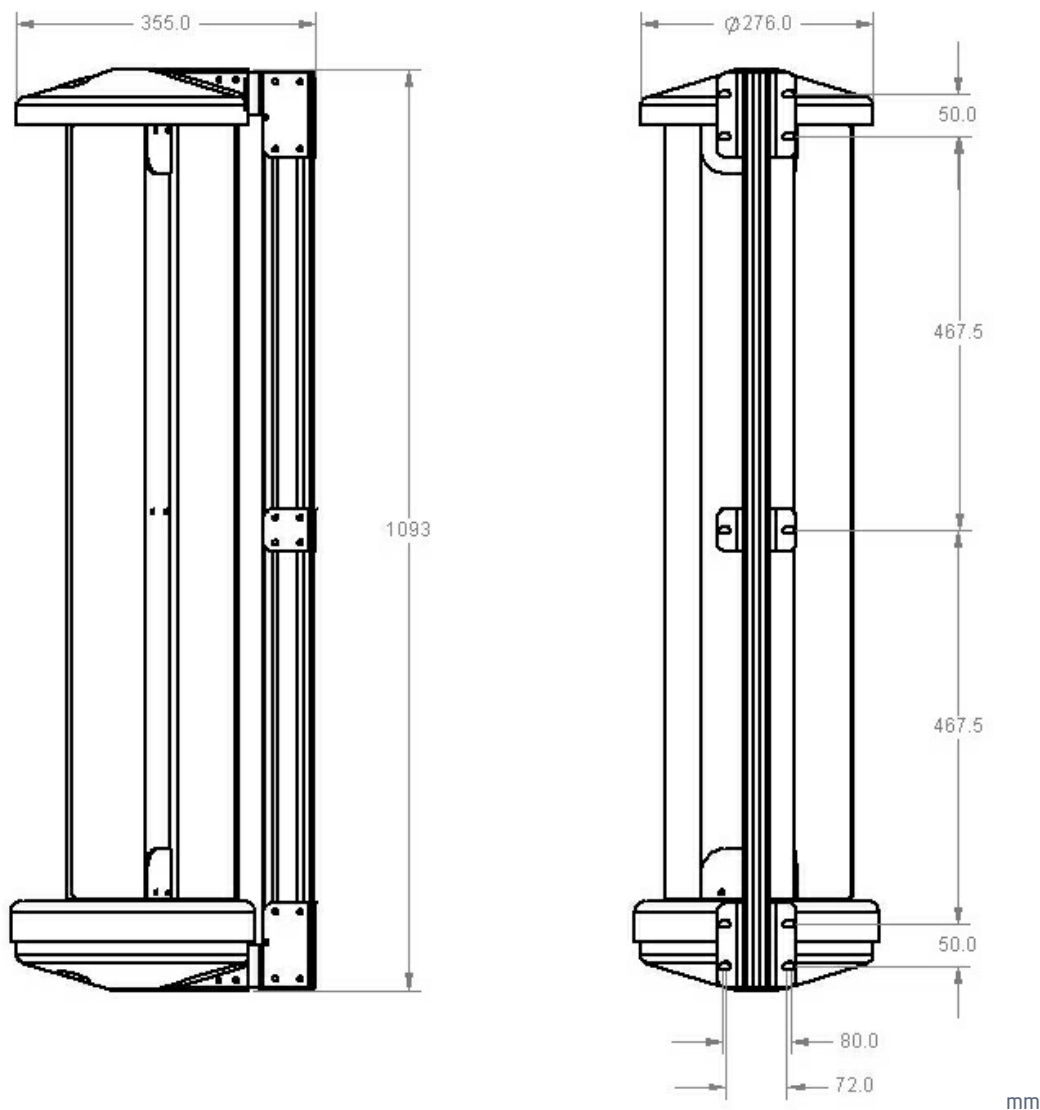
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vRotor diameter - 270mm
 Height - 918mm
 Rotor type - 3-Blade savonious
 Blade material - Stainless steel
 Rated output - 24W at 8m/s (18mph)
 Peak output - 200W
 Cut-in speed - 5m/s (11mph)
 Survival wind speed - 35m/s (80mph)
 Weight - 9Kg
 Warranty - 2 years
 DC Voltage output - 12V, 24V, 48V



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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- Data logging
- Telemetry
- Security
- Marine
- Data communications
- Environmental monitoring

Our LE-v150 Extreme vertical axis turbine is adapted for storm force winds and sub zero temperatures. The LE-v150 Extreme is suitable for use in challenging environments where space is limited such as on telecoms towers, CCTV stations.

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.

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