

LE-6000

Provisional Tech Spec Sheet



About the LE-6000

Drawing on over 10 years of small wind turbine design and manufacture, the LE-6000 uses a combination of field proven engineering and innovative new ideas. The oversize rotor diameter gives excellent energy yield at everyday wind speeds whilst the active flight control computer keeps the larger swept area under control in high winds and storm conditions.

The high efficiency axial flux alternator features the latest rare earth Neodymium Iron Boron technology which gives effortless start-up with no

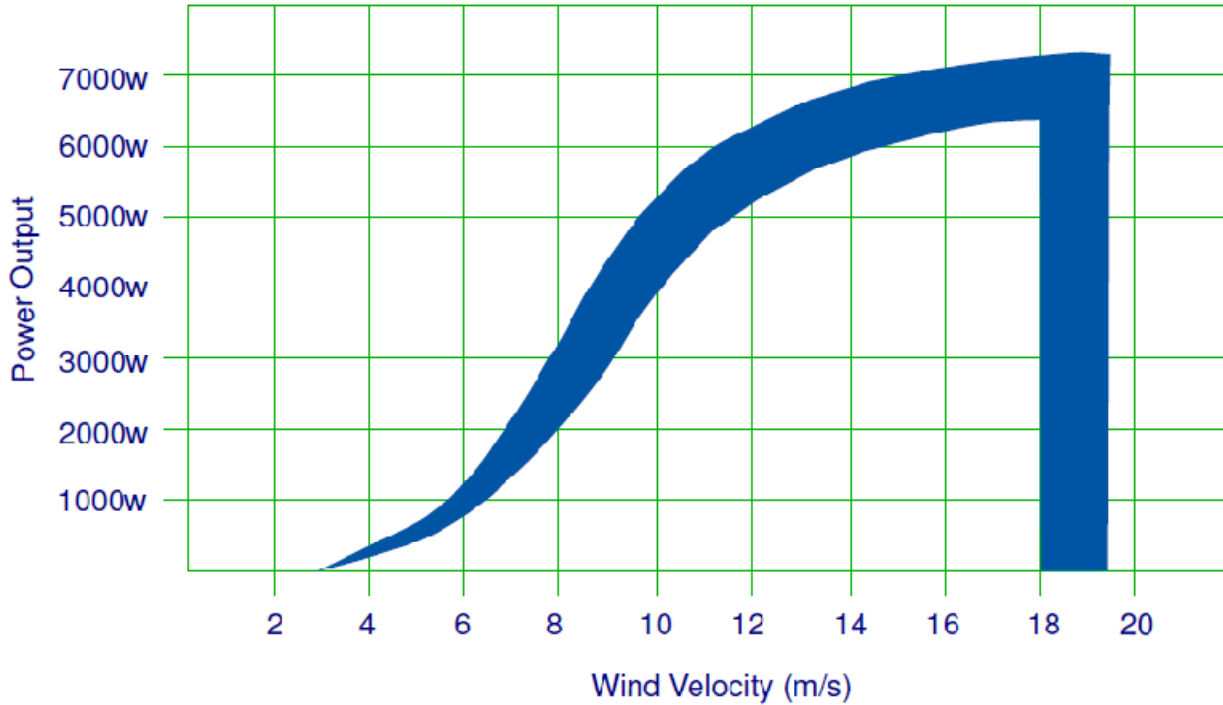
'cogging' in the lowest wind speeds allowing the LE-6000 to be generating power whilst other turbines remain stationary. Furthermore, the unique blade arrangement is optimised through careful engineering to maximise yield whilst keeping generic rotor noise to a minimum and eliminating tower wake effects.

The LE-6000 has been engineered around the successful and established 'Windyboy 6000' inverter designed for connection to a single phase supply, or can be installed on two 'Windyboy 3000' inverters on a three phase supply (under the G83 regulations). The control system works in conjunction with the inverter and provides over-voltage and general power control capabilities throughout the operating envelope of the turbine.

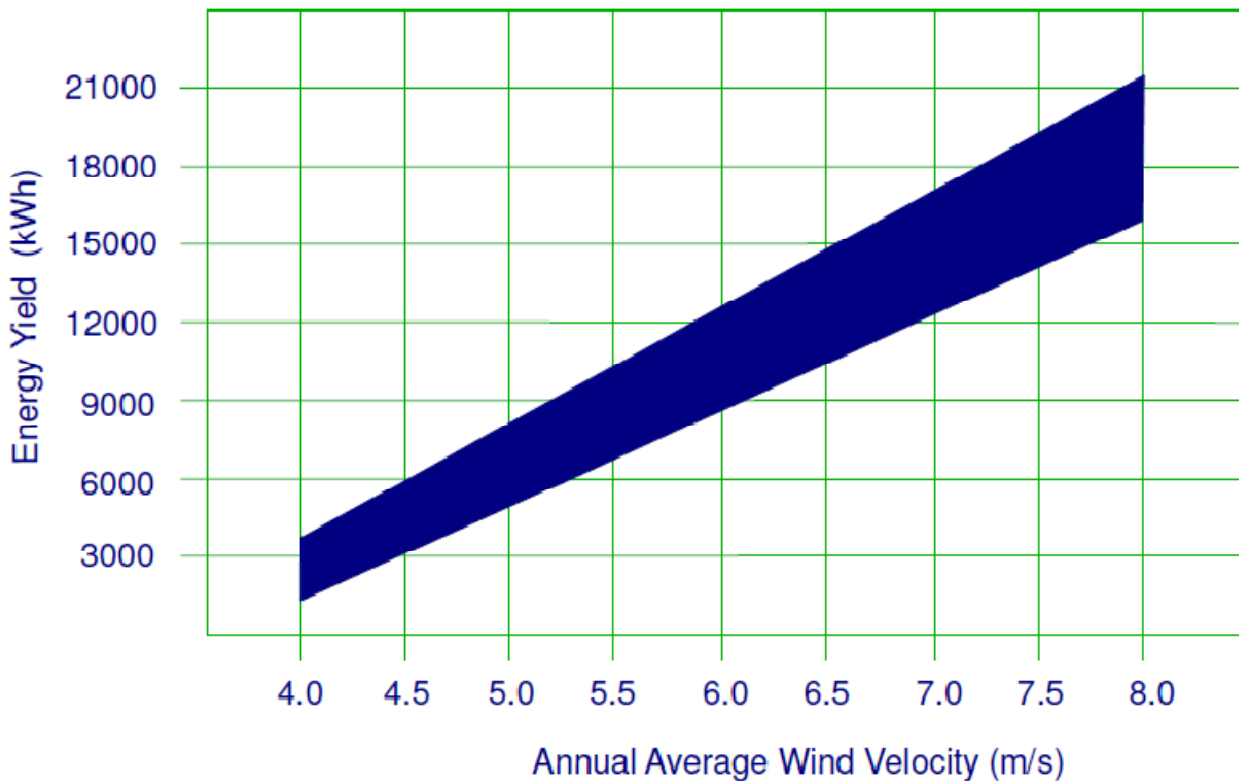
A 15m tapered, sectional free standing tower has been designed for exclusive use with the LE-6000. The hydraulic lift and lower capabilities of the tower allows positioning in locations which may otherwise be impossible and allow fast, safe and easy installation and maintenance of the tower top equipment.

As with all Leading Edge products, the LE-6000 has been designed and manufactured in the UK to the highest standard to give maximum value in the most demanding environments.

Estimated Power Curve

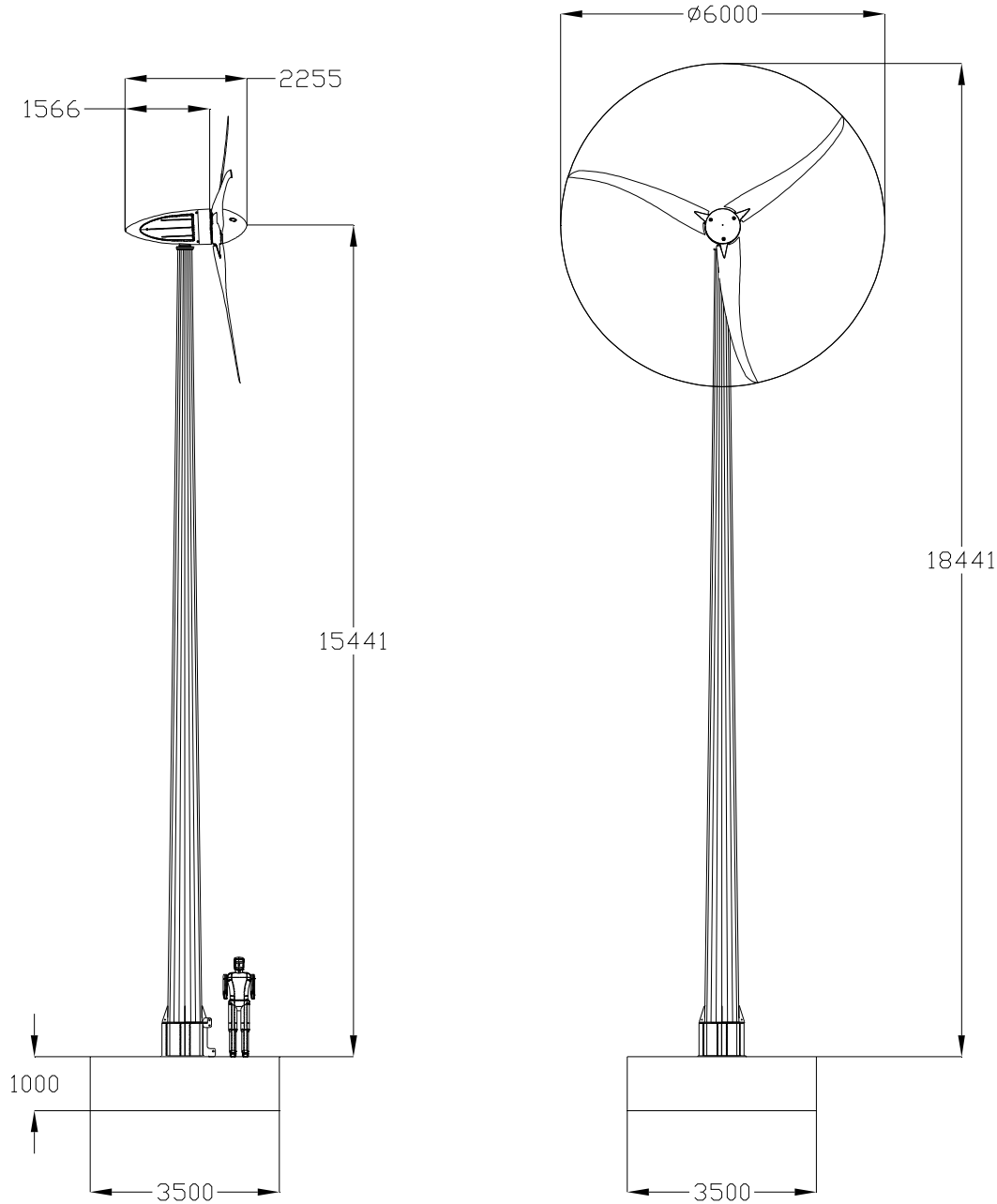


Estimated Annual Energy Production



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Specifications

Rotor Diameter:	6.0
Rotor Type:	3-Blade Downwind
Blade Material:	Glass Reinforced Composite
Rated Output:	5000watts @ 11m/s (24mph)
Peak Output:	6000watts
Cut-in speed:	3m/s (6.7mph)
Estimated AEP:	7000-20,000kWh*

Head Weight:	265kg
Generator Type:	3-Phase Brushless NIB dual rotor out-runner PMA
Grid-Tie Equipment:	SMA WB6000
Control:	Flight Computer, Auto Shut-down Over Voltage, Mechanical Brake
Acoustic Levels (30m):	53dB(A) Equivalent to normal speech
Lifetime & Servicing:	20yr life, yearly service