



KW3

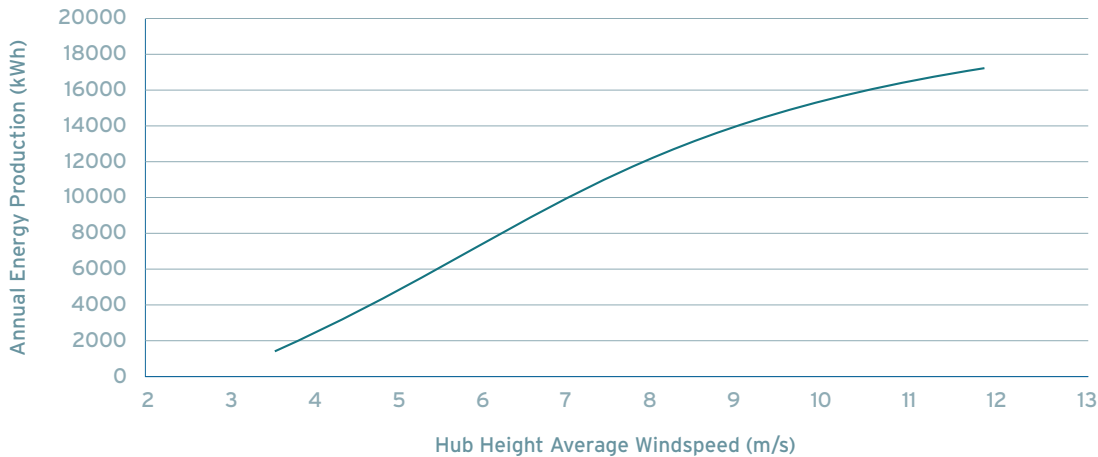
The KW3 wind turbine stands out from all other small scale wind turbines due to its unique blade and hinge design which allows it to regulate its rotational speed, maximising output - as the wind gets stronger the blades pitch and cone, protecting the turbine and allowing continual operation during the fiercest of storms.

Kingspan KW3 wind turbine is the result of over 30 years research and development and born from a global installed fleet size in excess of 800 - including the world's largest rural off-grid fleet in The Falkland Islands through to specialist installations in Asia, Europe, North America, offshore oil platforms and the global telecoms sector.

KW3 Product Specifications

KW3	
Peak Power	3.2kW
Reference Annual Energy	4,700kWh at 5m/s
Applications	Telecoms, Rural Domestic, Off-Shore Oil Platforms
Solutions	Grid Tied, Battery Charging, 24V DC, 48V DC - 300V DC
Architecture	Downwind, 3 bladed, Self Regulating
Rotor	3.8m diameter, 300RPM at Rated Power. Thrust 5 kN
Blade material	Glass Thermoplastic Composite / Polypropylene
Generator type	Brushless Direct Drive Permanent Magnet.
Tower Heights	6.5m/11m (Flange Bolted/Taper Fit Monopole - Hydraulic options available)
Foundation Options	Pad/Root/Rock Anchor options
Cut in speed	3m/s
Cut out speed	None - Continuous operation
Survival Wind Speed	Designed to Class 1 (70m/s)
Warranty	5 year standard.

Annual Energy Production KW3



The AEP Curve (Annual Energy Production) demonstrates the energy the KW3 will generate on sites with the wind speeds indicated. The ability to calculate kWh per annum allows for estimations of financial viability and payback. Energy performance estimates are based upon a standardised method using publicly available information. It is given as guidance only. Performance of wind turbine systems varies from location to location and from year to year. Your chosen installer will advise of site specific performance characteristics.

