

Kingspan Wind



KW6

High Performance
Wind Turbine



Kingspan
Environmental



Kingspan Wind is the latest addition to the Environmental Division of Kingspan Group PLC.

Born as the result of over 30 years' research, development and innovation with installations in over 60 countries and on every continent. From rural domestic installations in the UK & Europe, remote islands in the Falklands, off-shore oil platforms in the North Sea to a world first application in Antarctica, Kingspan Wind offers unrivalled wind power solutions the world over.

Our wind turbines are recognised for their outstanding performance, durability and unrivalled run time – Accumulating over 35million run hours annually.

- **4000+ Installed Globally**
- **22 Years Successful Run Time**
- **5-year Parts & Labour Warranty**
- **Single, Dual and Three Phase Compatible**
- **No Requirement to Shut Down in High Winds**
- **Independently Tested to International Standards IEC61400-2**
- **Low Servicing Requirement (every 2 years or 25,000kWh from 1st service)**

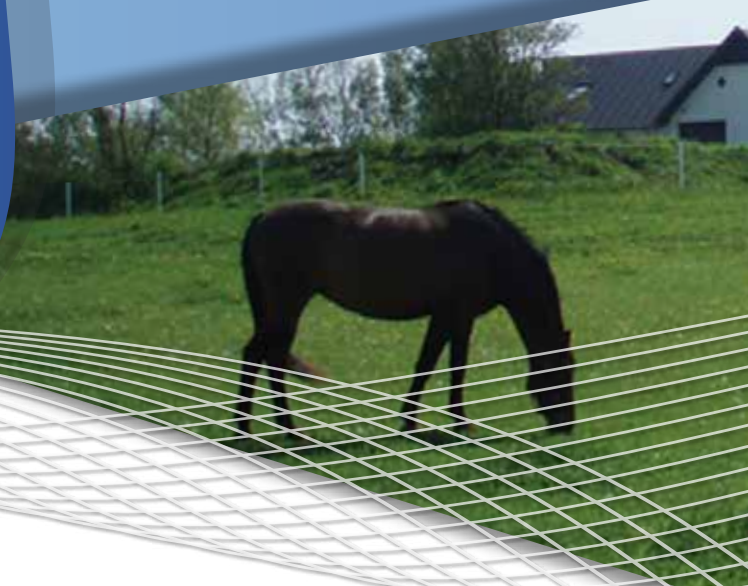
4000+ Installed In Over 60 Countries & On Every Continent
Accumulating Over 35 Million Run Hours Annually

Why Choose A Kingspan Small Wind Turbine?

Our turbines are designed to last the course, having already surpassed 22-years successful operation around the globe. When serviced in line with our recommendations, a 25-year product lifespan is expected. Designed, tested, certified and manufactured in Great Britain, over 90% of our supply chain and build of materials is sourced in the U.K.

Generate 9,000kWh to 25,000kWh annually*

*dependent on wind speed above 5.2m/s



No Requirement To Stop In High Winds

Designed to operate in any wind regime – high performance is maintained even in the fiercest storms. Our unique over-speed protection system, coupled with our delta rotor design ensures continuous energy generation.

No Gearbox =
Higher Efficiency

"I purchased my 6kW Turbine in 2009. I am absolutely thrilled with the turbines performance and reliability. The simplicity of the design and reliability of the product gives me full confidence in my investment"

Mike Hill, Co. Dublin, Ireland

We operate a best in class manufacturing facility which is focused entirely on our wind systems, complemented by our specialist in-house wind team with over 25 years' experience in the International Small Wind Industry



“With the strong winds in Orkney, we are delighted to be able to use it with our 6KW Kingspan Turbine, which has produced 21,981kWh in the first year.”

D & B Bain, Orkney, Scotland

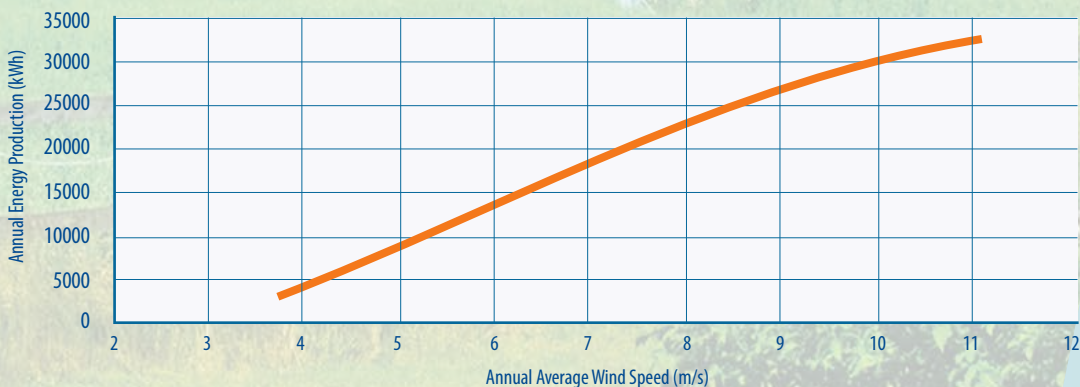


Low Visual Impact

Kingspan turbines are well suited to rural domestic, farming and agricultural applications and are available with a variety of tower heights. Installing on our 9m, 11.6 or 15m towers will in most cases eliminate the need for an environmental impact assessment which is often required for wind turbines over 20m in height or turbines with a large swept area.

Greater Return on Investment

Unlike alternative turbines on the market, the Kingspan wind turbines do not require to shut themselves down in high winds – they offer continued generation in all wind speeds which enables customers to achieve a faster payback and greater return on investment. The table below demonstrates the generation curve of the KW6 wind turbine.



KW6 Product Specifications

Peak Power	6.1kW**
Reference Annual Energy (RAE)*	8,949 kWh
Applications	Rural Domestic, Smallholding, Agricultural, Commercial, Telecoms, Public Sector, Remote Islands
Solutions	Grid Tied, Battery Charging, 48V DC – 300V DC, Direct Heating
Grid connection options	Single / Dual / Three phase
Architecture	Downwind, 3 Bladed, Self Regulating
Rotor	5.6m diameter, 200RPM at Rated Power. Thrust 10kN
Blade Material	Glass Thermoplastic Composite
Generator Type	Brushless Direct Drive Permanent Magnet
Tower Heights	9m / 11.6m / 15m / 20m (Flange Bolted / Taper Fit Monopole - Hydraulic options available)
Foundation Options	Pad / Root / Rock Anchor options
Cut In Speed	3.5 m/s
Cut Out Speed	None – continuous operation
Survival Wind Speed	Independently tested to Class 2 (59.5m/s)
Warranty	5-year standard
Cold Climate Options	Available on request

* RAE is annual energy production at 5m/s.

**Rated Power 5.2kW (1min average at 11m/s)

Estimated Annual Energy Yield (kWh) at various wind speeds.

Model	Wind Speed m/s	kWh Generation
KW6	5	8,949
KW6	5.5	11,415
KW6	6	13,881
KW6	6.5	16,329
KW6	7	18,776
KW6	7.5	21,002
KW6	8	23,228

Please note: these figures are given as a reference guide only – turbine performance is site specific and the Kingspsn Wind accredited installer will be able to advise you on your specific site requirements and performance estimates. Kingspan Wind turbine performance data is independently tested and verified. Always check with your supplier or manufacturer to present the independently certified data.

Alaska



Denmark



UK



South Atlantic



Kingspan Wind

