



Original Certification: 06/17/2013
Expiration Date: 06/17/2017
Certification must be renewed annually.

Certification Number: **SWCC-11-04**

This Certificate is issued to:

Kingspan Environmental Ltd.
180 Gilford Road, Portadown,
Co. Armagh, BT63 5LF
United Kingdom
www.kingspanenviro.com

For the wind turbine model:

KW6

This Certificate represents that the above-identified Small Wind Turbine (SWT) is in conformance with the AWEA *Small Wind Turbine Performance and Safety Standard* (AWEA Standard 9.1 – 2009).

Changes to the Small Wind Turbine system design are to be approved by SWCC. If changes are made to the SWT without approval, this Certificate is not valid and is not in effect.

The wind turbine specifications relevant to this Certificate are provided on the following page.

Shawn Martin

Director of Technical Services



Please verify certification is active on the SRCC website.

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Wind Turbine Specification:

Turbine parameters

Manufacturer	Kingspan Environmental Ltd.
Model	KW6
Power Form.....	240 VAC, 1-phase, 60 Hz
Rotor Diameter	5.5 m
Rotor Swept Area	23.7 m ²
Cut-In Wind Speed	2.5 m/s
Cut-Out Wind Speed	N/A
Maximum Power.....	6,135 W
Maximum Voltage.....	600 VAC, 3-phase from turbine
Maximum Currents	22 ADC into inverter 23 Arms from inverter

Turbine Ratings

AWEA Rated Annual Energy @ 5 m/s	8,950 kWh
AWEA Rated Sound Level	43.1 dB(A)
AWEA Rated Power	5.2 kW @ 11 m/s
Peak Power.....	6.1 kW @ 17 m/s

Design and Duration

Turbine design calculations comply with AWEA Standard 9.1 – 2009 for an IEC Class I SWT with an average wind speed (V_{ave}) of 10 m/s and reference wind speed (V_{ref}) of 50 m/s.

As a result of the particular wind distribution that occurred during the test period, it was not possible to demonstrate IEC Class I wind conditions. The turbine duration test complies with AWEA Standard 9.1 – 2009 for an IEC Class II SWT with an average wind speed (V_{ave}) of 8.5 m/s and reference wind speed (V_{ref}) of 42.5 m/s.

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