

NYMNP
29 AUG 2012

KW6

Planning Support Document

Certification Number TUV 0008





NYMNPA
29 AUG 2012

IMPORTANT

This document is intended as an aid to complete planning applications. It includes product information normally required for UK planning applications. For additional information please contact



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Product specifications

Rotor

Type: Downwind, 360 degrees free yawing
Speed control: Self-regulating
Blades: 3 blades, passive coning and pitch control
Rotor diameter: 5.6m
Rated speed: 11m/s
Rotor thrust: 10kN

Generator

Type: Brushless permanent magnet, direct drive
Output: Grid connect, battery charging (48V)

Tower

Type: Self-supporting monopole
Hub height: 9m, 11.6m and 15m (hinged or hydraulic tower)

Pad foundation

3.80m x 3.80m x 1.00m (max.)
Root option also available

Weights

Wind turbine: 600kg

Performance

Cut-in wind speed: 3.5m/s
Max wind speed (survival): Designed to Class 1 (70m/s), Tested to Class 2 (59.5m/s)
Rated Power: 5.2kW (at 11m/s measured at hub height)
Peak Power: 6.1kW
RAE: 8,949kWh as certified by TUV NEL (at 5m/s measured at hub height)

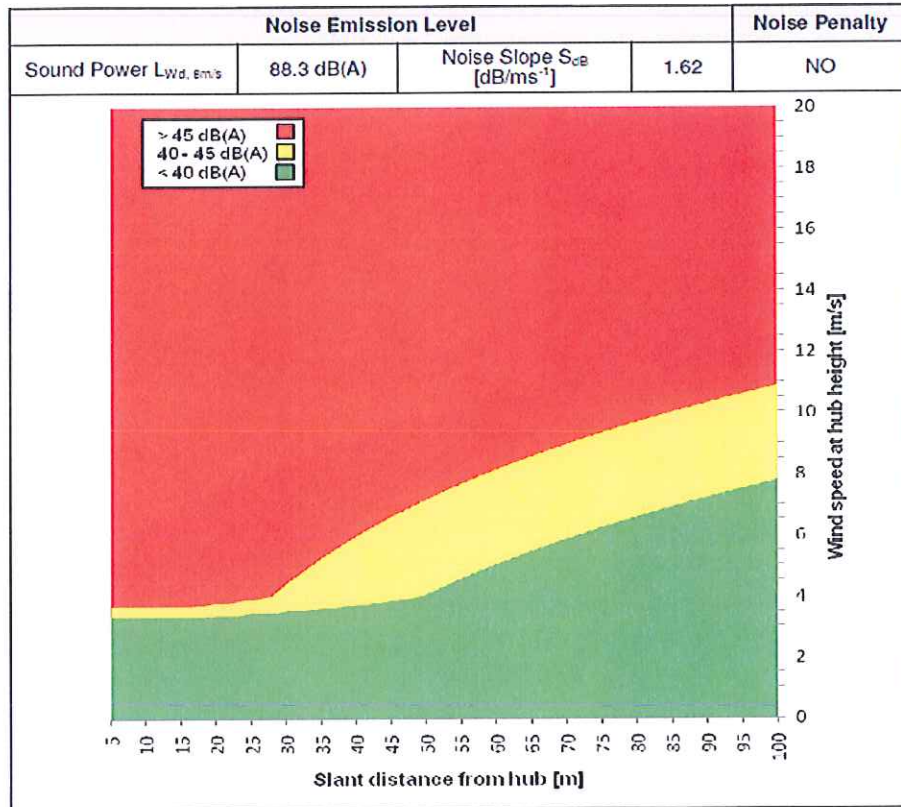
Build materials and colours

Frame: Galvanised steel, grey (not visible)
Blades: Glass thermoplastic composite, black or white
Covers: Plastic. Black (RAL 9005) or White (RAL 9003)
Towers: Galvanised steel, grey



Noise

The following noise map is a declaration of the sound power level, including noise slope tested according to BWEA standard 29th Feb 2008 which amends IEC 61400-11 for the purposes of acoustic testing of small wind turbines.



A full report is available upon request from planning@kingspan-wind.com

Aviation

All wind turbines have the potential to be detected by radar systems, and in some cases this can cause problems for the providers of air traffic control services, such as the local civilian or military airport, or NATS En Route.

The best solution is to ensure there is no radar line-of-sight from the upper tip of the wind turbine to the radar. In the event that the wind turbine site is in radar line-of-sight to an airport radar, Kingspan Renewables recommends you discuss the siting with the airport authority early in the planning process. The airport authority can often advise how best you may mitigate the impact of the wind turbine, so early discussion is recommended. Similar early discussions will also assist in identifying any MoD or NATS En Route concerns.

It is worth noting that the presence of other wind turbines does not automatically mean an application is acceptable, as cumulative impact may also be an issue.

Siting

Siting and installation of your wind turbine must comply with "Installing small wind-powered electricity generating systems" (CE72) and "Microgeneration Installation Standard" (MIS 3003) which reflect the industry's best practice.

Energy Saving Trust publication "Installing small wind-powered electricity generating systems" (CE72) can be downloaded from:

<http://www.energysavingtrust.org.uk/Global-Data/Publications/Installing-small-wind-powered-electricity-generating-systems-CE72>

The Microgeneration Certification Scheme publication "Microgeneration Installation Standard" (MIS 3003) can be downloaded from:

<http://www.microgenerationcertification.org/admin/documents/MIS%203003%20Issue%202.0%20Micro%20Wind%202010.08.26.pdf>



Technical Drawings

04

The following technical drawings are scaled elevations for the wind turbines listed below:

- KW6 on 9m tower
- KW6 on 11.6m tower
- KW6 on 15m tower

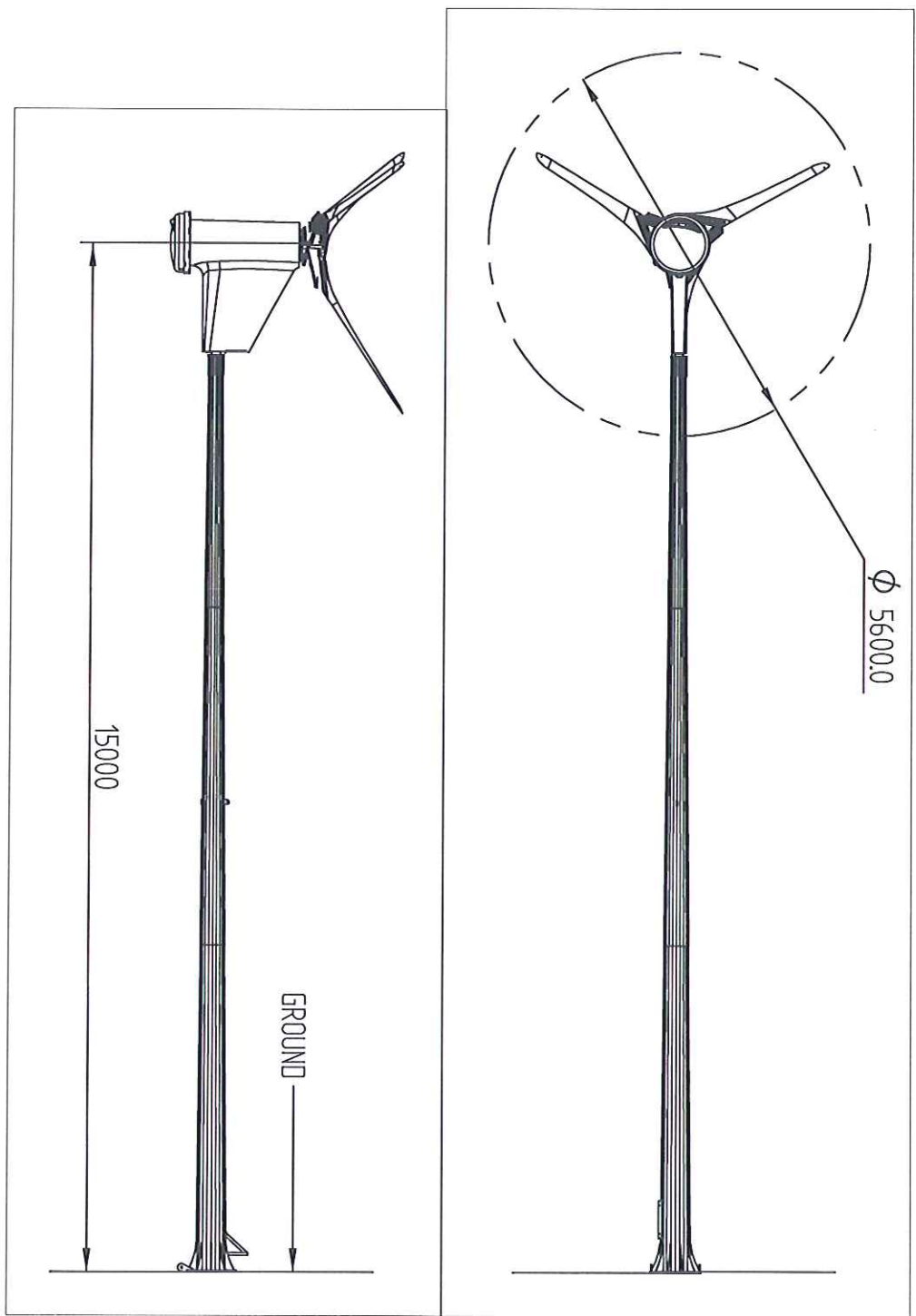
NB – Please ensure when printing that Page Scaling is set to “None”



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WEIGHTS:
Tower = 724 + 252 = 976kg
Turbine Head = 600kg

COLOR:
Tower and Frame – Galvanised Grey
Covers – White, RAL9003
Black, RAL9005

A		COLOUR SPEC ADDED STRAINING FOR PRINTING. NOTE ADDED		13/01/11	395	N/A	AM	AM
B		T15m PLANGE BOLTED VARIANT ADDED		31/03/11	404	SPT3	AM	AM
C		Drawing border updated		09/11/11	N/A		PI	AM
REV	DESCRIPTION	DATE	BY	CHKD	ENG	SPEC		
REVISION HISTORY								
GENERAL NOTES				DEBURR ALL SHARP EDGES WELD SYMBOLS TO BS 499 PART 2C WELDING TO BS EN 1014-2 GALVANISING OF COMPONENTS TO CONFORM TO BS EN ISO 1461				
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS 1 R. ±0.1; 2 R. ±0.01						
Kingspan Renewables Ltd. www.kingspanwind.com		DRAWN	NAME	DATE	TITLE	KWS on 15m Brake Folded, Slip Jointed Tower		
		CHECKED	A MCN	01/03/10	Material:	Finish:		
SCALE: 1:100	WEIGHT:			SHEET 4 OF 5	Released for			

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29 AUG 2012



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