Bergey EXCEL-S 10kW Turbine

BERGEY WINDPOWER

"THE WISE, LONG-TERM INVESTMENT CHOICE"



The Wise Choice

30 years ago Bergey pioneered the radically-simple "three moving parts design" that has proven to provide the best reliability, service life, and value of all of the hundreds of competitive designs that have come and gone in that time. A small wind turbine is a big investment and Bergey is clearly the wise choice.

Complete Peace of Mind

- 10 Years Warranty
- 30 Years Track Record
- Robust Technology
- 50 Year Design Life
- Low Maintenance
- Very Low Noise Levels

BERGEY WINDPOWER





"SIMPLE SOPHISTICATION"

	BWC Excel 5	BWC Excel 10
Reference Power	5 kW at 11 m/s	10 kW at 12 m/s
BWEA Rated Power	5.2 kW	8.2 kW
Rotor Diameter	6.2 m	7 m
Rotor Area	30.2 m2	38.5 m2
BWEA AEO	9,800 kWh	13,200 kWh
Start-up Speed	2 m/s	2.2 m/s
Cut-out Speed	None	None
Max. Design Speed	60 m/s	60 m/s
Warranty	5 years	10 years
Maintenance	Inspection every 2 years	Inspection every 2 years
Configuration	Upwind HAWT	Upwind HAWT
Rotor	3-blade, fixed pitch	3-blade, fixed pitch
Alternator	3Ø Neo Permanent Magnet	3Ø Neo Permanent Magnet
Overspeed Protection	Autofurl®	Autofurl®

Bergy Excel 10

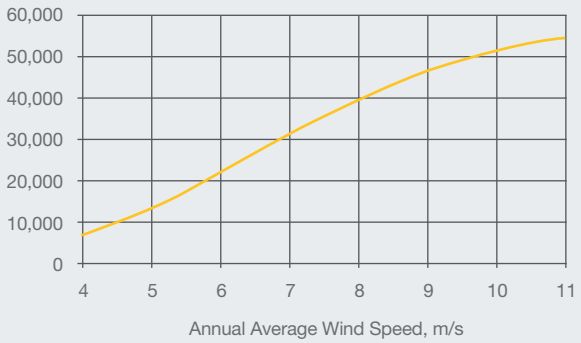
All ratings are correct to a sea level air density of 1.225 kg/m3

Hub Height Annual Average Wind Speed (m/s)	Estimated Annual Energy Production AEP (kWh)	Standard Uncertainty in AEP (kWh)	Standard Uncertainty in AEP (%)
4	7,135	503	7.05
5	13,842	884	6.39
6	22,300	1,281	5.74
7	31,342	1,604	5.12
8	39,755	1,824	4.59
9	46,652	1,944	4.17
10	51,626	1,982	3.84
11	54,685	1,961	3.59

Reference air density: 1.225 kg/m3

Cut-out wind speed = n/a

Bergey Excel 10 AEP Curve (MCS)



Specs

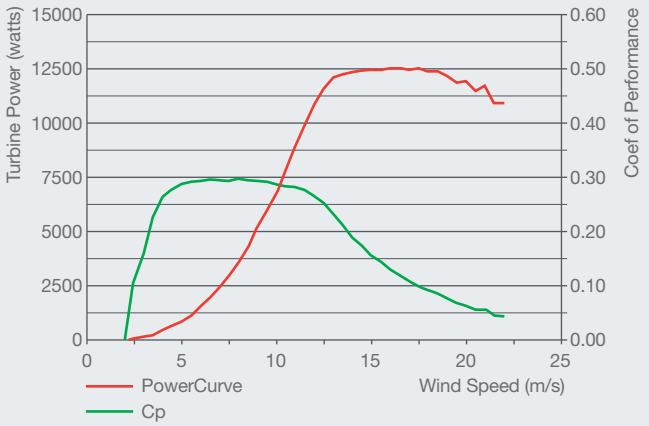
Colour

- Standard yellow/white with black rotors
- All grey with grey rotors

Tower

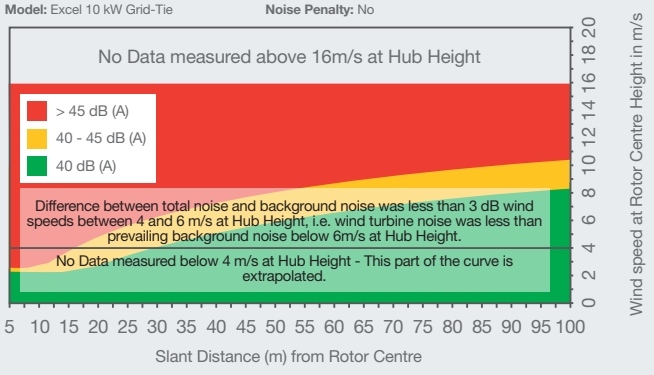
- Free Standing Lattice 15m-40m
- Hydraulic Tilting Monopole 15m-20m
- Folded Steel Static Monopole 15m-30m

Bergey Excel 10 PowerCurve (MCS)



Bergey Excel 10 Acoustic Noise Levels (MCS)

Turbine Make: Bergey Windpower Co
Model: Excel 10 kW Grid-Tie
Noise Emission Level: Sound Power Lwd, sm/s
Noise Penalty: No



Acoustic Performance Testing by: USDA-ARS / USA July/August/October 2011

Noise Label issued by: Hayes McKenzie Partnership Ltd. /UK October 2011

SIAC WIND ENERGY

Exclusive UK & Eire Distribution of Bergey Wind Turbines

APPROVED PRODUCT

MCS

BRE GLOBAL LISTED