

Bergey Excel 5

Overview

The new Bergey Excel 5 is ideal for smaller and more efficient homes, farms, and small businesses. Its extra large rotor and ultra low cut-in wind speed give it exceptional performance, out producing all other turbines in its class.

Recommended for:

- Smaller, more efficient homes.
- Smaller, more efficient farms and businesses.
- Eco-tourism resorts.
- Small to medium size telecommunication sites.

Connected to the grid, the Bergey Excel 5 can offset energy consumption for an efficient home, farm, or business at a moderate wind site.

Inverter

The all new Powersync II power processor (inverter) is the most advanced in the industry and it carries a full UL certification to the latest utility standards.

History

Introduced in September 2011, the Excel 5 is the latest in Bergey's line of wind turbines.

Installation

The Excel 5 is most often installed on a guyed-lattice tower, which is available in heights of 18m (60ft) to 43m (140ft).

Tilt-up versions of these towers are available for sites without crane access.

Self-supporting lattice towers and monopoles are also available in heights of 18m (60ft) to 49m (160ft).



Specs

AWEA Rated Power: 5.2 kW @ 24.6 (11 m/s)

Peak Power: 6.2 kW

AWEA Annual Energy: 9,800 kWh @ 11 mph (5 m/s) average

Cut-In Wind Speed: 4.5 mph (2 m/s)

Cut-Out Wind Speed: None

Furling Wind Speed: 31-45 mph (14-20 m/s)

Max. Design Wind Speed: 134 mph (60 m/s)

Nominal Rotor Speed: 0-400 rpm

Type: 3 Blade Upwind, Horizontal Axis

Rotor Diameter: 20.2 ft. (6.2 m)

Weight: 770 lb. (350 kg)

Overspeed Protection: AUTOFURL

Gearbox: None, Direct Drive

Temperature Range: -40 to 140 F (-40 to 60 C)

Towers: Guyed and Non-Guyed 60-160 ft (18-49 m)

Alternator: 3Ø Neo Permanent Magnet

Inverter: 6 kW Powersync II (Outdoor Rated NEMA 3R Enclosure)

Remote Monitoring via Internet & Smart Phones (Optional)