

WindCutter Specifications

General

Axis

Vertical

Application

On-grid

Rotor height

3.96 m (13 ft)

Rotor width

2.31 m (7.58 ft)

Swept area

9.15 m

2

Turbine weight (including PMG)

382 kg (843 lbs)

Brakes

Electrical

Automated fail-safe with diversion load

Mechanical

Redundant disc brake system with dual independent calipers

Warranty

5 Years

Expected Design life

20 years

Mount

Monopole (30 ft) or various industrial mounts

Performance

Rated output

(11m/s) 1,500 Watts

Peak output

(13m/s) 2,500 Watts

Annual energy at 7m/s

3,460 kWh

Rated RPM

175 RPM

Cut-in wind speed

4 m/s (9 mph)

Rated wind speed

11 m/s (24.6 mph)

Survival wind speed

45 m/s (100 mph)

Construction

Blade material

High strength anodized aluminum

Blade colors

Clear, black, light bronze, medium bronze, dark bronze

Turbine structure

High strength galvanized steel

Electrical

Generator type

High efficiency axial flux PMG: three-phase AC

Grid-Tie rated voltage

400Vac

OffGrid rated voltage

250Vac

Special Features:

- Low wind startup, can work in high wind
- Unique for maximum aerodynamic efficiency
- Easy to use, plug and play design, with virtually no vibration
- Materials selected to withstand extreme environments
- Stand-alone use
- Nearly silent operation design for less than 34 decibels with background noise, at 10 feet
- Omni-directional airflow capture, withstands high wind gust attacks
- Safe for birds and animals

* Please note: The specs above illustrate data compiled from testing working prototype units. The fir