



Windspire® Specifications

The Windspire® wind turbine is an aesthetically designed vertical axis wind turbine that operates quietly while generating electricity for immediate use in your home or business.

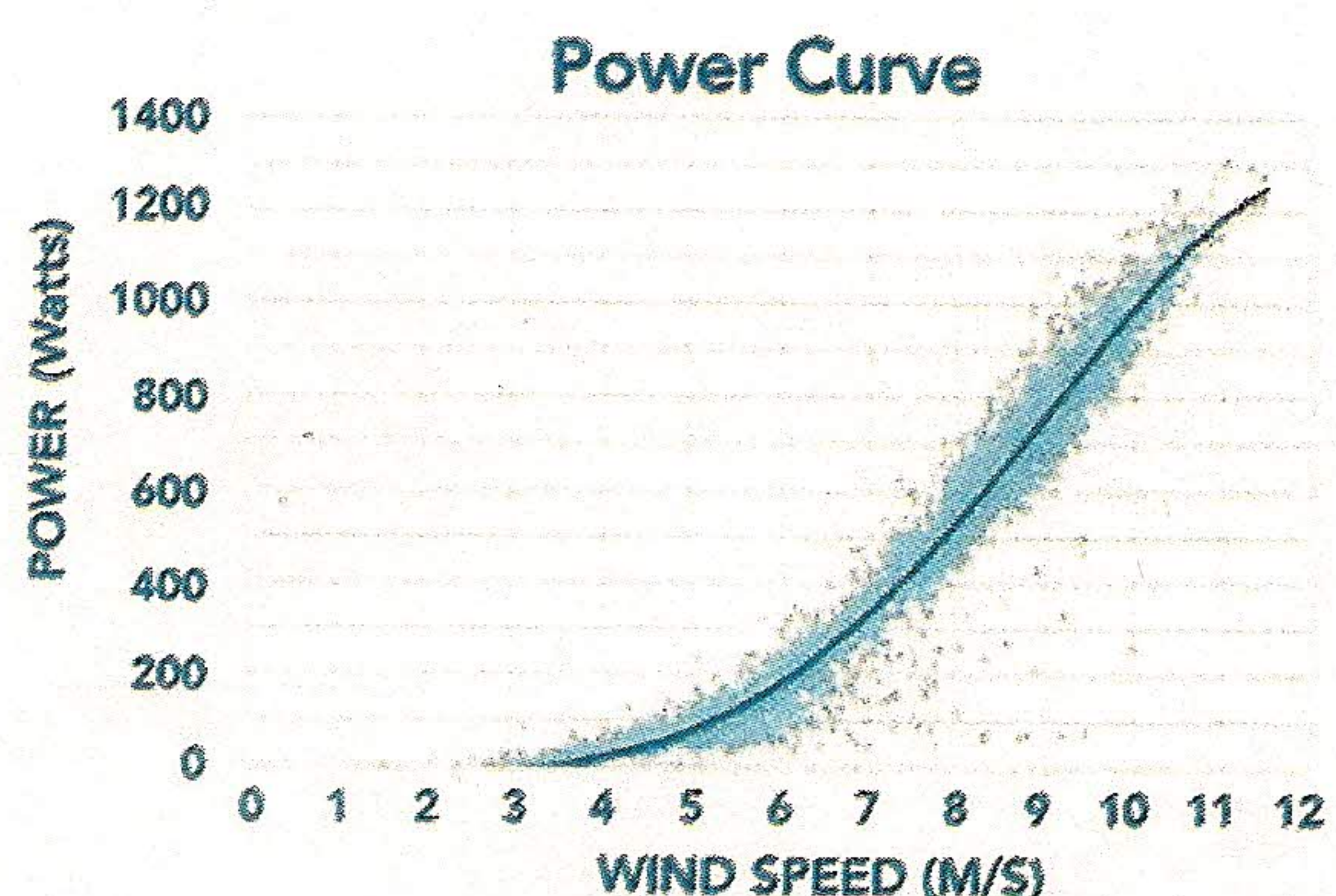
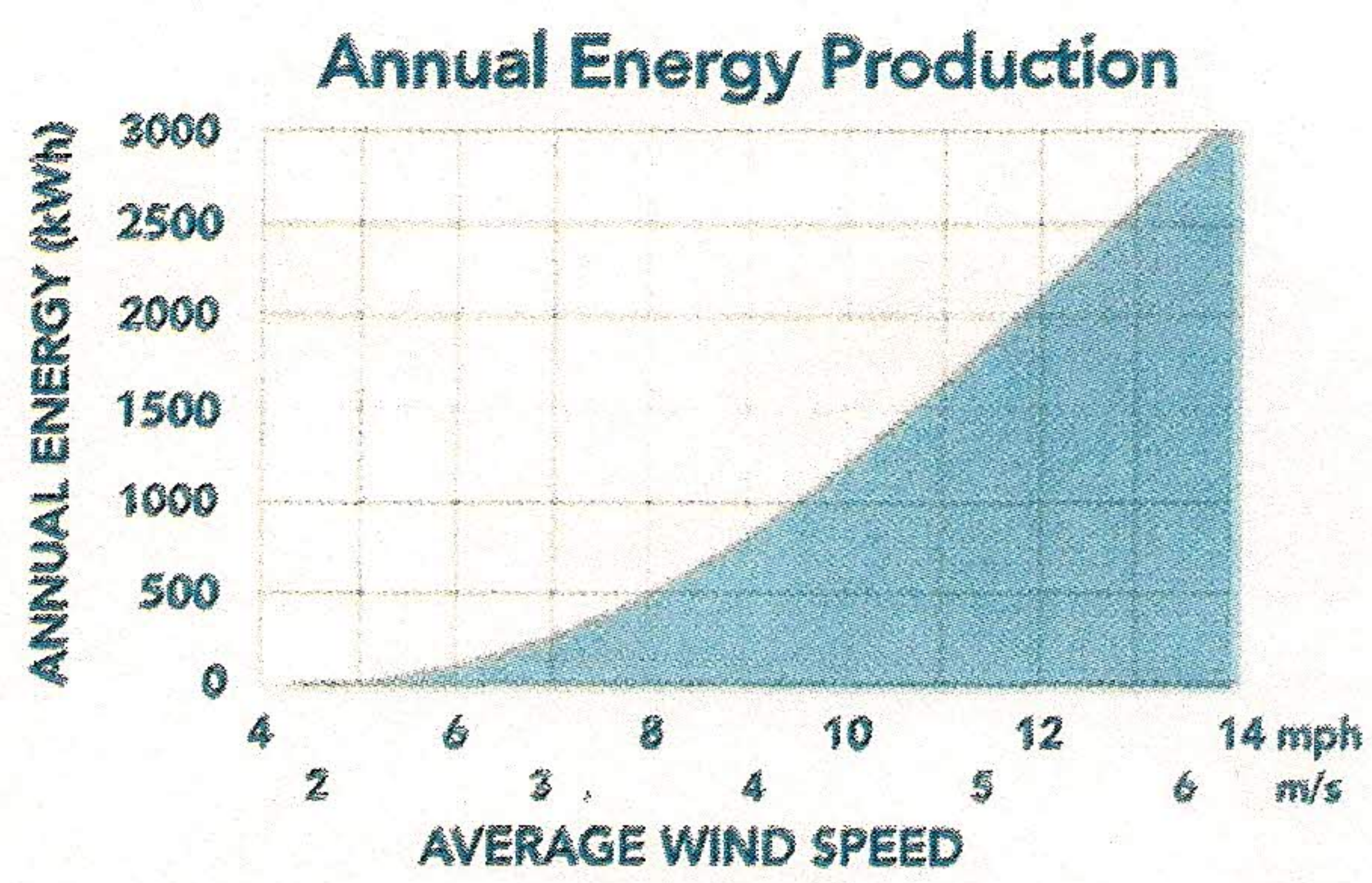
The Windspire® is also the lowest priced alternative energy appliance within the one kilowatt range on the market. And it's made in the USA.

Windspire® invites everyone to explore the potential of clean energy from the natural power of the wind.

Annual Energy Production (AEP)	2000 kWh ¹
Instantaneous Power Rating (IPR)	1.2 kW (1200 watts) ²
Standard Unit Height	30 ft 9.1 m (pole extension options available)
Total Weight	624 lb 283 kg
Unit color	Soft Silver
Sound output	6 dBA above ambient (15 mph wind, 6 ft from base)
Warranty	5 Year Limited
Rotor Type	Vertical Axis - Low Speed Giromill
Rotor Height / Diameter	20 ft 6.1 m / 4 ft 1.2 m
Swept Area	80 sq ft 7.43 sq m
Max Rotor Speed	400 RPM ³
Tip Speed Ratio	2.3
Speed Control	Redundant Electronic
Wind Tracking	Instantaneous
Generator	High Efficiency Brushless Permanent Magnet
Inverter	Inverter Custom Integrated Grid Tie 120 VAC 60 Hz
Inverter Certification	Meets IEEE 1547.1; UL 1741
Performance Monitor	Integrated Wireless Zigbee Modem
Cut-in Wind Speed	8 mph 3.6 m/s
AEP Average Wind Speed	12 mph 5.4 m/s
IPR Rated Wind Speed	25 mph 11.2 m/s
Survival Wind Speed	105 mph 47 m/s
Foundation	Poured Concrete
Foundation Size	2 ft diameter by 6 ft base ⁴
Rotor Material	Recycled Aircraft Grade Extruded Aluminum
Monopole/Structure Material	Recycled High Grade Steel
Paint	2 Coats, Corrosion-Resistant Industrial Grade Paint
Coatings	Rust Veto & Zinc Olive Drab

General
Rotor
Electronics
Wind Ratings
Construction

Notes: 1: AEP is based on the power curve and standard assumptions including a Rayleigh wind distribution and sea level air density. 2, 3: Performance is based on initial field test data. Final testing is currently underway. 4: Foundation size may vary for non-standard soil conditions or non-standard heights.



Data from Windward Test Site, Spanish Fork, Utah



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