Technical Specifications

Rotor Diameter: 46 inches (1.15m)
Weight: 13 lbs (5.85kg)
Shipping Dimensions: Shipping: 27”x15”x9” (686x38x228mm) / 17 lbs (7.7kg)
Mount: 1.5” schedule 40 pipe (1.9” OD, 48 mm)
Start-up wind speed: 8 mph (3.58 m/s)
Voltage: 12, 24, 34 and 48 VDC
Rated Power: 400 watts at 28mph (12.5m/s)
Turbine Controller: Microprocessor-based smart internal regulator with Peak Power Tracking
Body: Cast aluminum (Air-X Marine is powder coated for corrosion protection)
Blades (three): Carbon Fiber Composite
Over-speed Protection: Electronic torque control
Kilowatt hours per month: 38 kWh/mo @12mph (5.4m/s)
Warranty: 3 Year Limited Warranty
Survival Wind speed: 110 mph (49.2 m/s)

Sphere of Operation

Top View

24.5 inch radius
61 cm

26.6 inches (67.5 cm)

22.5 inches (56 cm) Minimum Safe Pole Length Above Obstructions

2.0 inches
5 cm

Power Output (Watts)

0 100 200 300 400 500

mph

m/s

2.3 4.5 6.8 9.0 11.3 13.5 15.8 18.0 20.3

Instantaneous Wind Speed

Performance Curves

Monthly Energy Output (kWh)

0 10 20 30 40 50 60 70

mph

m/s

1.8 2.7 3.6 4.5 5.4 6.3

Annual Average Wind Speed

Rayleigh Distribution Curve k/m²

Top Line - Non-Turbulent Site
Bottom Line - Turbulent Site

Southwest Windpower
Renewable Energy Made Simple

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