

AIR-X Wind Module

Introducing the latest evolution in small wind turbines. The AIR-X builds upon what made AIR the world's #1 selling small wind turbine with new technology previously found only in today's state-of-the-art mega-watt-class wind turbines.



Much Lower Noise: Previous wind modules relied on their aero-elastic blade design for protection in high winds, causing loud flutter noise in winds above 35 mph (16 m/s). AIR-X's circuit monitors the wind speed and electronically slows the blades as it reaches its rated output preventing it from going into flutter. This results in a much quieter wind turbine. In high winds, the AIR-X will continue to produce power at a reduced level until the wind decreases, at which point maximum output will resume. **The Benefit: Quieter and friendly operation.**

The new microprocessor based speed control results in increased performance, improved battery charging capability and the reduction of "flutter" noise from the turbine. The controller allows for peak-power tracking of the wind by optimizing the alternator's output on all points of the cubic curve and then efficiently delivers the energy to the battery. The turbine's smart controller allows it to actually control blade rotation speed thus eliminating the buzzing noise commonly found with wind turbines in high winds. Furthermore, a new series of carbon-reinforced blades with a modified pitch angle further increases power production.

Design changes are primarily found within the body of the turbine:

- New microprocessor-based controller.
- New "wave washer" combined with looser bearing-to-body tolerances are incorporated into the face bearing set. This results in lower compression on the bearing/race, with quieter running and lower startup speed. It also lowers stress on the bearings and shaft when subject to twisting forces during normal operation.
- New series of carbon reinforced blades.
- More robust tower clamp and yaw assembly for stronger and more secure tower mounting.

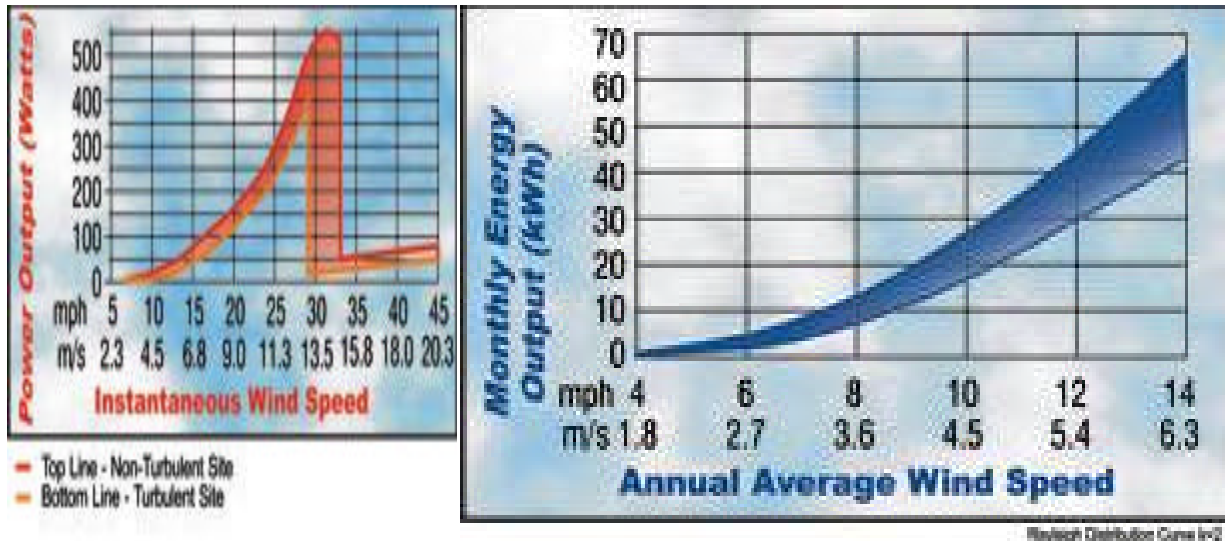
Features

- **Unprecedented 3 YEAR WARRANTY**
- Simple **installation**
- Carbon Fiber Composite Blades
- Aircraft quality aluminum alloy **castings**
- **Exclusive Brush-less** neodymium cubic **curve alternator**
- Sophisticated internal battery **charge regulator**
- **Maintenance-free** - Only two moving parts
- **Exclusive Auto-brake-feature** that slows the **AIR** to a silent spin when the batteries are charged thus extending bearing life and reducing noise.
- **High Wind Safe Mode** - Automatically slows turbine in potentially damaging winds and **reduces noise**.
- **Neighbor Friendly**.

Specifications

Rotor Diameter:	46" (1.14 meters)
Weight:	13 lbs (6 kg)
Start up wind speed:	7 mph (3 m/s)
Voltage:	12 & 24 VDC (36/48 VDC available soon)
Output:	400 watts at 28 mph (12.5 m/s)

Performance Curves



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