



Introducing the WIND ARROW~

The time has come for a truly rugged small wind turbine, the “WIND ARROW”. True North Power NG’s newest 1kW turbine development with low inertia carbon fiber blades that are virtually silent. Carbon fiber has greater strength to weight ratios than any conventional blade material and the advanced controller is unlike any other.

With Active Flight Control, AFC™ is a technical breakthrough that eliminates the need for mechanical furling and provides optimum power at all wind speeds. WIND ARROW is capable of exceeding 1kW by 26mph under microprocessor control.

Fewer parts - More rugged - More reliable

When major storms threaten the turbine, the AFC automatically shuts the system down safely and then restarts after a selectable time delay. This makes this turbine the simplest, most powerful, most reliable 1kW turbine available.

AFC™ Explained ~

When high winds hit, most small wind turbines furl (turn away from the wind) to protect themselves from the power in the wind. Now with “Active Flight Control” AFC™ technology the WIND ARROW will stay facing the wind and producing power but under control that will not damage the turbine. In normal weather AFC™ constantly monitors the rpm and voltage coming from the turbine to feed smooth DC power to the batteries or the Direct2Heat (D2H) model sends it directly to either an air or hot water heater element.

WIND ARROW blades are the lightest, most durable technology available today. With no mechanical furling system there are almost 50% fewer parts than other small turbines and that means there’s nothing to fail in storm surges. Annual service inspections take less than 10 minutes to ensure nothing is loose and the yaw commutator brushes can be removed and replaced by anyone with a screw driver.



Features:

- AFC™ “Active Flight Control” microprocessor power management
- “Storm Otto-Shutdown” SOS Mode - No mechanical furl needed
- Microprocessor controlled
- 24 or 48 V system voltage and Direct2Heat models available
- Extremely light weight and super quiet carbon fiber composite blade technology
- Hard anodized aluminum body with all stainless steel hardware

Rotor Diameter	2.0 meters (6.5 feet)
Configuration	3 blade upwind with AFC™ technology
Rated Power	1 kW at 26 mph SoftStallPower™ SSP Mode above 30 mph Storm Otto-Shutdown Protection Mode
Alternator	Neodymium magnet, 3 phase
Voltage Options	24 or 48 V (not field selectable)
Weight	17.2 kg (38 lbs)
Warranty	5 years
Certifications	ESA and CE Certified



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