

# Ampair® 300 wind turbine.

## 12 or 24 or 48 V battery charging power.

### Design.

The design of the Ampair 300 combines modern styling with low visual impact and quiet operation. It is suitable for larger yachts, small industrial & scientific locations, or remote holiday cabins. This microwind turbine has evolved from the outstandingly rugged Ampair 100 unit with the addition of the revolutionary PowerFurl™ blade pitch control system, advanced aerodynamic blade design and a more powerful generator.

The accurate aerofoil construction of each turbine blade minimises noise and vibration optimising performance and improves the power to weight ratio. The rigid blade design avoids “whooping”, “motorboating”, or “screaming”, (vibration, resonance, and flutter).

### PowerFurl™ technology.

Automatic pitch control provides a smooth control of turbine speed in strong winds whilst continuing to generate. The Ampair 300 operates without the need for thermal cutouts, chokes, commutator brushes or complex control electronics.

### Sealing.

An integral sealing system protects internal components from condensation and corrosion. Revolutionary PowerFurl™ hub runs on low friction polymer bearings for long life with no lubrication requirement. Throughout the design all components are selected for corrosion resistance and durability - all our turbines are marine grade.

### Power.

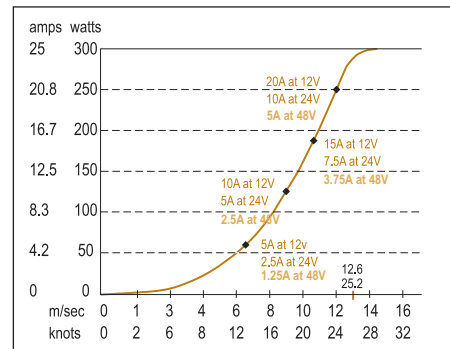
A powerful, low-speed alternator converts the turbine motion to 3 phase AC electricity. This allows use of lighter cables to feed the regulator whilst minimising voltage drop and power loss.

### Mounting.

Simple pole mounting allows easy fit to any existing mast or tower, or a range of stern mounts, gantry mounts, and mizzen brackets are available.

### Reliability.

Engineered to be smooth running, quiet and vibration free the Ampair 300 benefits from a pedigree stretching back well over 25 years.



### Technical Specifications:

Power Rating	300 Watts at 12.6 m/s (25 knots) windspeed
Voltage Options	12 or 24 or 48 V DC
Output	3 phase AC - external rectifier in regulator
Start-up Windspeed	3 m/s (6 knots)
Over speed protection	Blade pitch control
Turbine Diameter	1200mm
Weight	10.5 kg
Blades (3)	GRP
Housing	Die cast aluminium (powder coated)

