



Powerful
Quiet
Lightweight



CY-300

Delivers the **lowest cost per watt** than any other turbine in its class

marine & industrial off-grid

CY-300 Features



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Features:

High outputs

85W at 8m/s (17.8mph), 300W max

Quiet

"Quieter than any I have heard", Sailing Today

Lowest cost to watt ratio

Highest output for lowest cost

Rugged

Withstands the harsh marine environment and storm force conditions

Light

Weighs just 6.5Kg

Piece of mind

5 year warranty

Renowned for being quiet thanks to our blade design

This compact and quiet horizontal axis turbine is considered to be the lightest, most powerful and quietest turbine in its class. All at an affordable price.

The CY-300 is designed around a unique low inertia axial flux generator which utilises Neodymium rare earth magnetic materials. This alternator has zero 'cogging' which, together with its highly efficient and low 'TSR' Whispower blades, allow the turbine to generate power at very low wind speeds and deliver a higher output than the competition in high wind speeds.

The turbine has been designed for harsh environments, surviving high winds by means of a passive aerodynamic design that limits turbine RPM and power output at a certain threshold. It is marine quality finished with sealed bearings and fully lubricated, so little maintenance is required.



CY-300 Technical Overview

Rotor diameter - 1 metre

Rotor Type - 3-Blade upwind

Blade Material - Glass Reinforced, UV resistant Nylon

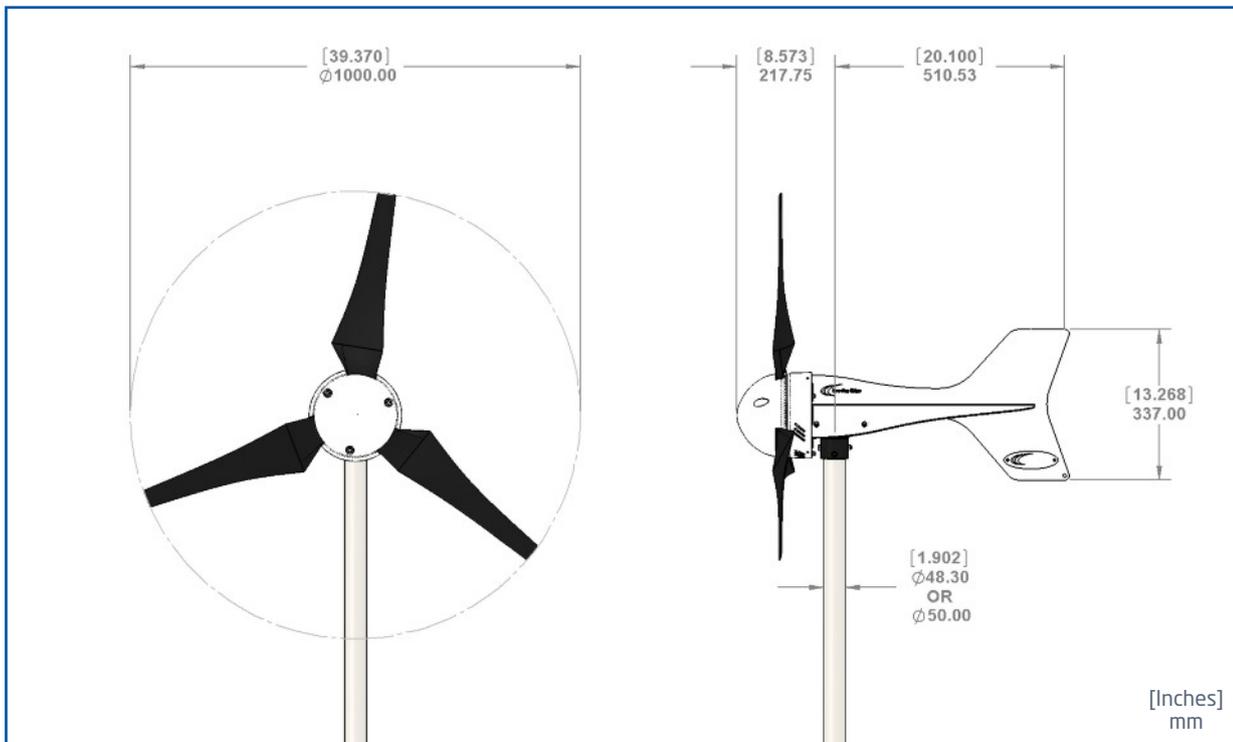
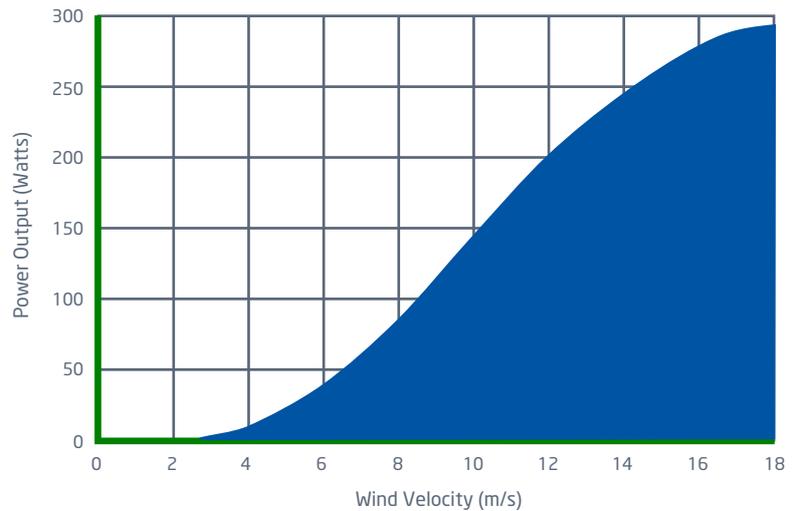
Rated output - 85W at 8m/s (18mph)

Peak output - 300W

Cut-in speed - 3m/s (6.7mph)

Weight - 6Kg

DC output voltage - 12V, 24V or 48V



The CY-300 is precision engineered in the EU with only two moving parts so little maintenance is required during the turbine's long operating life. Where wind speeds can regularly reach over 27m/s (60mph), the CY-300 Extreme is the wind turbine of choice.

In a typical stand alone system, the turbine sits on a tower (see Guyed Tower Kit) and is connected to a battery via a maintenance (run/stop) switch. A charge controller is used to divert excess power to a dump load when your batteries are full. The CY-300 is often combined with Solar PV panels in 'power hungry' off-grid renewable energy systems.



CY-300 Applications



- **Marine**
- **Telemetry**
- **Telecommunications**
- **LED Lighting systems**
- **Road signage**
- **Off-grid**
- **Security**

Our CY-300 horizontal axis turbine is a quiet and powerful yet lightweight 300 watt wind generator for battery charging & grid connected applications.

It is used extensively in a variety of industrial applications.

Wind turbine performance is subject to many factors. All output data contained in this document is indicative and actual turbine outputs will depend on the prevailing site and installation conditions.

