

## Horizontal Wind Turbine

### Features

- Wind Turbine startup wind speed of 2.1m/s (4.7mph)
- Smooth and quiet running maintenance free sealed turbine
- Sealed die cast aluminum housing for protection from harsh environments
- Very light and compact
- Easy Installation and Maintenance Free Operation
- Electronic over-speed protection
- Charges batteries from flat



*TPW-400N  
400W Wind Turbine*

### Applications

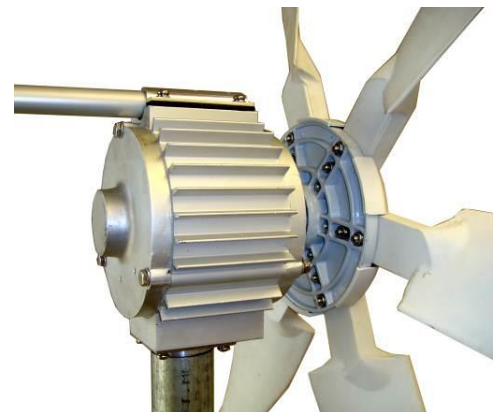
- Battery Charging Applications
- Wireless Base Stations
- Street Lamps and Signs
- Boats, RV's and static caravans
- Surveillance Cameras
- Electric Gate Openers, Electric Fences
- Remote Cabins and buildings
- Security Systems

### Description

The TPW Series Wind Turbines from Tycon Power Systems are lightweight at less than 10.5kg and are designed for ease of installation and long service life. The generator is a very low cogging force design for better performance in light winds and is packaged in a fully sealed die cast anodized aluminum enclosure. There are no brushes to wear out or cause electrical noise and the bearings are sealed so the system is maintenance free. The blades are glass reinforced nylon for high strength, UV resistance and fatigue resistance. The turbines are available in a 12V/24V auto voltage select model. The unit includes a smart battery charge controller and dump load resistor. The dump load helps prevent premature braking and increases the total power delivered to the batteries. The entire blade assembly can be removed easily as 1 piece for hurricane protection. This also makes it easier and safer to install.

The permanent magnets used are Neodymium Iron Boron (NdFeB) for higher power output.

The mounting is to the inside of the top of a 41mm ID standard pole. The hardware used is stainless steel for corrosion protection.

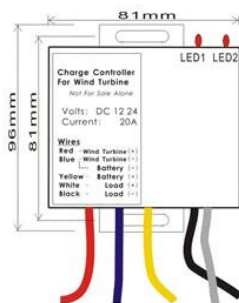


## Specifications

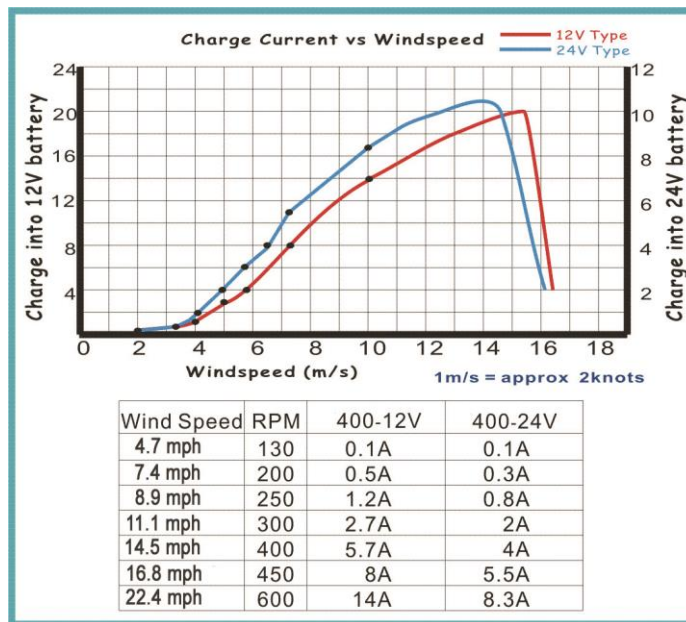
	TPW-400N-12/24
<b>Startup Wind Speed</b>	2.1m/s (4.5mph)
<b>Power Rating</b>	300W
<b>Max Power Output</b>	400W
<b>Turbine Voltage Output</b>	36V
<b>Controller Voltage Output</b>	12V or 24V Auto Select Battery Voltage
<b>Rotor Diameter</b>	1.12m (3.7ft)
<b>Blade Material</b>	Glass reinforced nylon
<b>Body</b>	Anodized Aluminum Extrusion
<b>Weatherproofing</b>	IP65 and Salt Mist Corrosion Protected
<b>Over-speed Protection</b>	Electronic
<b>Survival Wind Speed</b>	40m/s (90mph)
<b>Protection</b>	Open Circuit, Short Circuit, High Wind
<b>Certifications</b>	CE , RoHS
<b>Mounting Pole Required</b>	41mm (1.614") ID
<b>Operating Temperature</b>	-40C to +60C (-40F to + 140F)
<b>Weight</b>	10.5kg (23lb)

**Notes:**

- All shipments F.O.B. Draper, UT 84020
- Tycon Power Systems Wind Turbines carry a 2 year limited warranty



Includes Smart 20A battery  
charge controller



## System Ordering:

**TPW-400N-12/24** 400W 12V/24V Horizontal Wind Turbine with Controller and Dump Load

## For further information contact:

[Tyconpower.com](http://Tyconpower.com)

