

**TPW Series DATA SHEET** 

## **Horizontal Wind Turbine**

### **Features**

- Integrated Controller with Dump Load to Optimize Performance
- 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

## **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 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 12V/24V auto voltage select. The unit includes an embedded smart battery charge controller and dump load resistor. The dump load helps prevent premature braking and increases the total power delivered to the batteries. It also helps protect the turbine in high winds. 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 (1.5" Sched 40). The hardware used is stainless steel for corrosion protection. The units can be used in arrays of multiple turbines to increase available power.



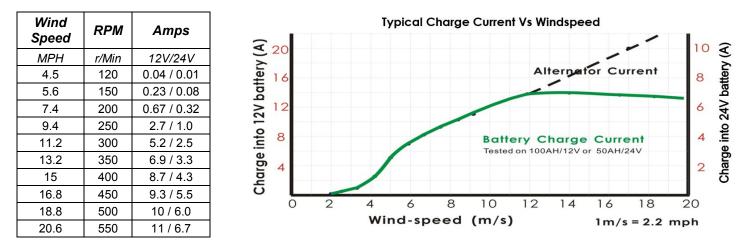


400W Wind Turbine

# **TPW Series**

## **Specifications**

	TPW-400DT-12/24
Startup Wind Speed	2.1m/s (4.5mph)
Power Rating	300W @ 12.5m/s
Max Power Output	400W
Turbine Voltage Output	12V or 24V Auto Select Battery Voltage
Rotor Diameter	1.12m (3.7ft)
Blade Material	Glass reinforced nylon
Body	Die Cast Aluminum
Weatherproofing	IP65 and Salt Mist Corrosion Protected
Over-speed Protection	Electronic
Survival Wind Speed	50m/s (112mph)
Certifications	CE , RoHS
Mounting Pole Required	41mm (1.614") ID (Example 1.5" Sched 40)
Operating Temperature	-40C to +60C (-40F to + 140F)
Weight	10.5kg (23lb)
Warranty	2 years



#### System Ordering:

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

#### For further information contact:

Tyconpower.com

