
Horizontal Wind Turbine

Features

- Wind Turbine startup wind speed of 2.1m/s (4.5mph)
- 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 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 polypropylene for high strength, UV resistance and fatigue resistance. The 200W turbines are available in a 12V or 24V model. The 400W turbines are available in a 24V model.

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

The mounting is to the top of a 48 to 51mm (2") OD standard pole. The mount system is a vibration isolation type to minimize vibrations being carried down the mounting pole. The hardware used is stainless steel for corrosion protection.



*TPW-200
200W Wind Turbine*



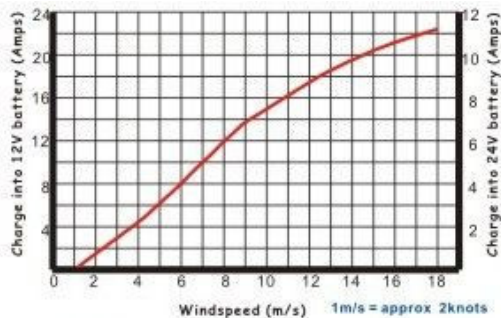
Specifications

	TPW-200-12	TPW-200-24	TPW-400-24
Startup Wind Speed	2.1m/s (4.5mph)	2.1m/s (4.5mph)	2.1m/s (4.5mph)
Power Rating (12.5m/s)	150W	150W	250W
Max Power Output	200W	200W	400W
Voltage Output	12V	24V	24V
Rotor Diameter	0.92m (3ft)	0.92m (3ft)	1.12m (3.7ft)
Blade Material	Glass reinforced polypropylene	Glass reinforced polypropylene	Glass reinforced polypropylene
Body	Anodized Die Cast Aluminum	Anodized Die Cast Aluminum	Anodized Die Cast Aluminum
Weatherproofing	IP65 and Salt Mist Corrosion Protected	IP65 and Salt Mist Corrosion Protected	IP65 and Salt Mist Corrosion Protected
Over-speed Protection	Electronic	Electronic	Electronic
Survival Wind Speed	35m/s (78mph)	35m/s (78mph)	35m/s (78mph)
Protection	Open Circuit, Short Circuit, Reverse Battery, High Wind	Open Circuit, Short Circuit, Reverse Battery, High Wind	Open Circuit, Short Circuit, Reverse Battery, High Wind
Mounting Pole Required	48mm to 51mm (2") OD	48mm to 51mm (2") OD	48mm to 51mm (2") OD
Weight	8.5kg (19lb)	8.5kg (19lb)	10.5kg (23lb)
Monthly Energy Production	78kWh @5.4m/s (12mph)	78kWh @5.4m/s (12mph)	155kWh @5.4m/s (12mph)

TPW-200 Wind Speed vs Current



TPW-400 Wind Speed vs Current



Notes:

- All shipments F.O.B. Draper, UT 84020
- TPW Series Wind Turbines carry a 1 year warranty

System Ordering:

TPW-200-12 200W 12V Horizontal Wind Turbine

TPW-200-24 200W 24V Horizontal Wind Turbine

TPW-400-24 400W 24V Horizontal Wind Turbine

For further information contact:

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