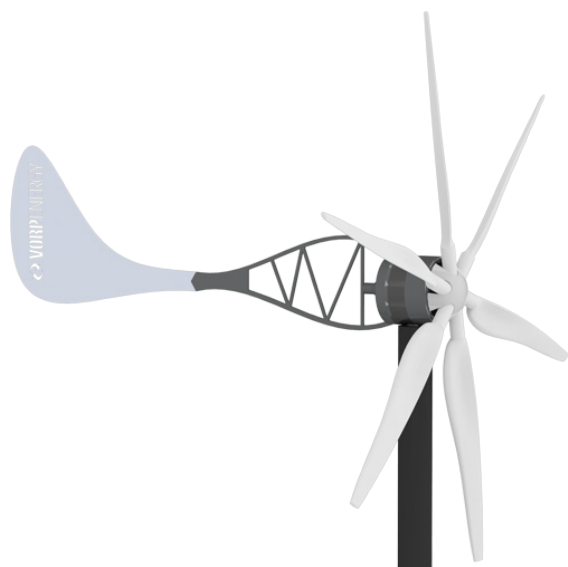


VWT450-24V



FEATURES

- Integrated Controller with Dump Load to Optimize Performance
- Wind Turbine startup wind speed of 4.5mph (2.1m/s)
- 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




DESCRIPTION

Vorp Energy Solutions Wind Turbines are designed for easy installation. The body is made from Die Cast Aluminum, making it both sturdy, and light weight (23lbs). The blades are Glass Reinforced Nylon, giving them high strength, as well as resistance to UV rays and fatigue. A brush-less generator, along with sealed bearings, all inside of a fully sealed enclosure ensure a long, maintenance-free service life. The unit includes an embedded smart battery charge controller, as well as a dump load resistor, which 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 installed or removed as 1 piece for a safer, easier installation, as well as for hurricane protection. Neodymium Iron Boron (NdFeB) magnets are used for higher power output. The whole system mounts to the inside of a standard 1.5" ID pole (41mm) with stainless steel hardware for corrosion resistance. An array of multiple turbines can be used to increase available power.

Wind Speed MPH	RPM	Amps 12/24V
4.5	120	0.04/0.01
5.6	150	0.23/0.08
7.4	200	0.67/0.32
9.4	250	2.7/1.0
11.2	300	5.2/2.5
13.2	350	6.9/3.3
15	400	8.7/4.3
16.8	450	9.3/5.5
18.8	500	10/6.0
20.6	550	11/6.7

	VWP450-24V
Startup Wind Speed	4.5mph (2.1m/s)
Power Rating	300W @ 27.5mph
Max Power Output	400W
Battery Charge Voltage Range	12V = 14.7 to 15.2V ; 24V = 29.4 to 30.4V
Turbine Voltage Output	12V or 24V Auto Select
Rotor Diameter	3.9ft (1.2m)
Blade Material	Glass reinforced nylon
Body Material	Die Cast Aluminum
Weatherproofing	IP65 and Salt Mist Corrosion Protected
Over-speed Protection	Electronic with integrated dump load
Survival Wind Speed	112mph (50m/s)
Wind Load	Wind Surface Area 375 sq in, 30lbs @ 60mph, 67lbs @ 90mph
Certifications	CE, RoHS
Mounting Pole Required	1.614" (41mm) ID (Example 1.5 Sched 40)
Operating Temperature	-40F to +140F (-40C to +60C)
Weight	23lbs (10.5kg)
Warranty	2 Years

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