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Vertical Axis Wind Turbines - Wholesale Prices

Item	Model Number	Description	Unit Price (USD)			Photo
			1~3pcs	4~9pcs	Above 10pcs	FIIOLO
1	VAWT-400 System	400W Vertical Axis Wind Turbine System Incl. D blade, S blade and Alternator, 400W charge controller and Damper	\$ 2,132.00	\$ 1,865.33	\$ 1,598.67	
2	VAWT-3600 System	3.6KW Vertical Axis Wind Turbine System Incl. D blade, S blade and Alternator, Wind grid tie inverter and Damper	\$ 19,998.67	\$ 17,332.00	\$ 14,665.33	
3	VAWT-5000 System	5.0KW Vertical Axis Wind Turbine System Incl. D blade, S blade and Alternator, Wind grid tie inverter and Damper	\$ 31,998.67	\$ 27,998.67	\$ 23,998.67	

Remarks:

400W system is designed for off-grid applications, no inverter included. Includes 12V or 24V DC controller to charge to battery bank 3.6kW and 5kW systems inverter is EU standard. Deduct \$799.00 per system to eliminate inverter from package

Poles not included

Payment Terms: Prepaid

Freight: FOB Factory (Ask for quote to site)



Concept------

A .Blade

D blade:

Except with Savonius blade which rotate with high torsion, new Darrieus blade has been choosed from aircraft blade database and optimized by Computational Fluid Dynamics system allowing it to be used with $10\%\sim20\%$ greater efficiency than the same level D blade.

S blade:

Except with Darrieus blade which can produce high efficiency, our new Savonius blade is improved by Computational Fluid Dynamics system and have a revise radian shape that reduce $5\%\sim10\%$ noise and vibration compared with the same level S blade.

B. Alternator:

Direct-drive permanent-magnet synchronous generator, with lower starting torque and improved efficiency, is incorporated precisely with blade and cost cheaper (no gearbox).

C. Electrical control:

- *Maximum Point Power Tracking
- *Using advanced computer cooing system to prolong life of machine and to enhance the performance
- *Full function: anti-storm mode, operating in strong wind and the ability of customizing depend on local weather.

Feature ·····

Our product all made by aluminum alloy have these advantages:

- *Weight saving (easy to install any construction)
- *More strength, more power
- *For generator, better cooling and better electromagnetic shielding to protect human body
- *Importance: All recycling

Specification

	400W			3.6KW			
Specifications	Diameter	Height	Weight	Diameter	Height	Weight	
	1.02m(3.34ft)	1.5m(4.8ft)	30Kg(66.1lbs)	4m(13.1ft)	4m(13.1ft)	500Kg(1102lbs)	
	Operating Parameters Time		e Info Month Power Output				
General	Start-up Wind Speed	Rated Wind Speed	Life Time	Warranty	lented mited 3.6W:252kWh/mo@5.9m/s(13.1mp		
Characteristic	<3m/s (6.7mph)	12m/s (26.8mph)	20years	Unprecedented 1 Year Limited Warranty			
	Material		Special				
Blade	Salt Spray Corrosion Resistance of Aluminum Alloys		Darrieus Lift-type Vertical-Axis				
A 14 a was a 4 a w		Material		Special			
Alternator	Salt Spray Corrosion Resistance of Aluminum Alloys		Brushless, Direct Driver, Permanent Magnet Alterntor				
Electric		Material			Special		
Control	Salt Spray Corrosion Resistance of Aluminum Alloys		Maximum Power Point Tracker(MPPT)				
Install Option							
Performance	400W Watts 250 200 150 0 2 3 4 5 6 7 8 9 10 11 12 m/s		3.6 KW 3500 2500 Watts 2000 1500 2 3 4 5 6 7 8 9 10 11 12 m/s				

VAWT-5000 5KW Vertical Axis Wind Turbine

The VAWT-5000 consists of Savonius blade which rotate with high torsion and Darrieus blade which can generate high efficiency. Our new Savonius blade is improved by Computational Fluid Dynamics system and has a revised radian shape that reduce 5%~10% noise and vibration compared with the same level S blade. New Darrieus blade has been chosen from aircraft blade database and optimized by Computational Fluid Dynamics system allowing it to be used with 10%~20% greater efficiency than the same level D blade.

Direct-drive permanent-magnet synchronous generator, with lower starting torque and improved efficiency, is incorporated precisely with blade and low cost (no gearbox).

Feature:

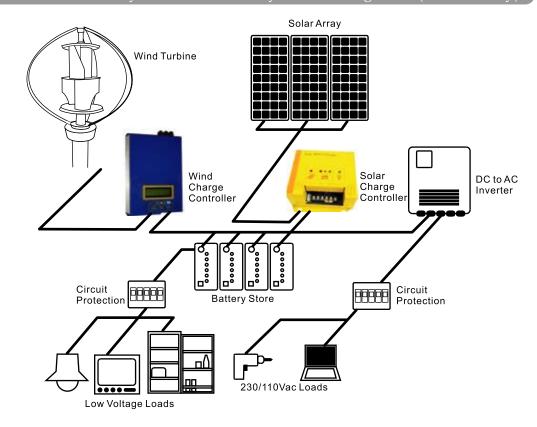
- •Can generate up to 50% more electricity per year than conventional turbines with the same swept area
- •Not need to "right themselves" into the wind
- •Unique damper design to overcome annoying noise and vibration.
- •Direct-drive units with no gearbox means a more efficient transfer of energy and no leaking oil
- Maximum point power tracking
- •Full Function: anti-storm mode, operating in strong wind and the ability of customizing depend on local weather
- •Made of aluminum alloy to enhance hardness, lower weight, recycle
- •Not harm wildlife, in terms of bird and bat strikes

Specification:

Dimension	Diameter: 6M	Height: 6.2M	Weight: 800KG		
General	Start-up Wind Speed	Rated Power Wind Speed	Survive Wind Speed		
Characteristic	<2.5m/s	12m/s	60m/s		
Dlada	Salt Spray Corrosion Resistance of Aluminum Alloy				
Blade	Darrieus Lift-type Vertical Axis				
Alternator	Brushless, Direct Drive, Permanente Magnet Alternator				
	Maximum Power Point Tracker (MPPT)				
Electric Control	Advanced computer cooing system to prolong life of machine				
	and enhance the performance				

^{*}Photo is only for reference, above specification is subject to change without notice

Solar and Wind Hybrid Standalone System for single use (with battery)



Solar and Wind Hybrid Grid Tie system for small community (no battery)

