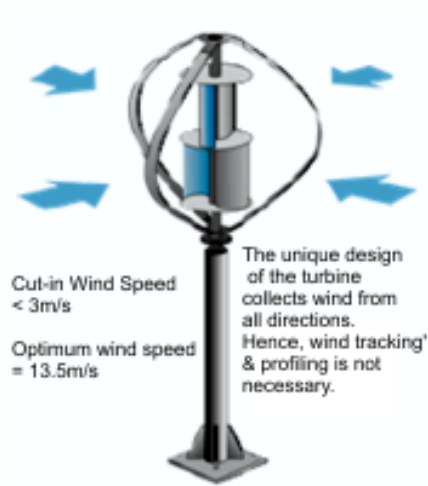


Unique Design

- Works in multi-directional Wind Conditions



- Works in low Wind Conditions



Direct Drive Coreless PMG
in extreme low startup
torque



Outdoor Applications:

- ✓ eKiosks (with lights, fan, mobile, laptop charging).
- ✓ eVehicle charging.
- ✓ Run Pumps etc.

12x Electricity Generation*!

1/6th Space Savings*!

*Compared to roof-top solar

Wide Applications:

- Roof-tops,
- Hills,
- Sea-side.

C(⊙)GNITIVE
ECHNOLOGIES
Solution by Innovation.





System Components

Kiosk – eVehicle charging, etc.



**1.5kW /3kW 2x e-Vehicle Charging,
with Mobile/Laptop charging Station:**

~ Rotor
~ Generator
~ 12/14VDC Controller
~ 3m Pole with base
~ Cover on the bottom of the pole
~ 1500*1500 RC Foundation
~ Control Box
~ 4x 12V 150-200AH Gel Battery
~ 2KVA Inverter
~ 60W of Led Lamp
~ Anchor Bolt 30Ø-350X350
~ Wiring Tube for Control Box.
~ Wiring
~ Electrical panel
~ Umbrella shade - custom
~ Mobile charging point
~ LED lamp
~ Small fan
~ Photo sensor
~ Controller
~ Optional Remote Monitoring

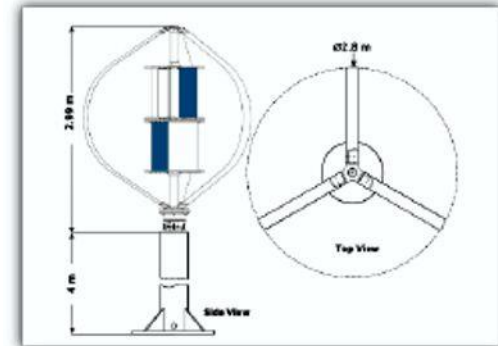
General Specifications

Rated Wind Speed	12 m/s	
Cut in Wind Speed	<3 m/s	
Survival Wind Speed	60 m/s	
Rated Power	1.5kW	3kW
Rated Speed	290 rpm	230
Cut out Wind Speed	15 m/s	15 m/s
Dimensions/Weight		
Rotor Diameter	2.8 m	4 m
Rotor Height	2.9 m	4.2 m
Tower Height	4.0 m	4 m
Total Height	6.9 m	8.2 m
Turbine Weight	380kg w/o tower	680
Rotor Specifications		
External Darrieus	3 Blades	
Internal Savonius	2 layers	
Blades Material	Anodized Aluminum	
Axis Material	Galvanized Steel SS400	
Generator Specifications		
Generator Type	AC, 3phase, Synchronism PMG	
Rated Output	1.5kW	
Braking System		
Automatic	Automatic dump-load and 3-phase short circuit braking system	
Manual	Mechanical Drum Brake	
Operation Conditions		
Ambient Temperature	-10~40°C	
Ambient Humidity	95% max.	

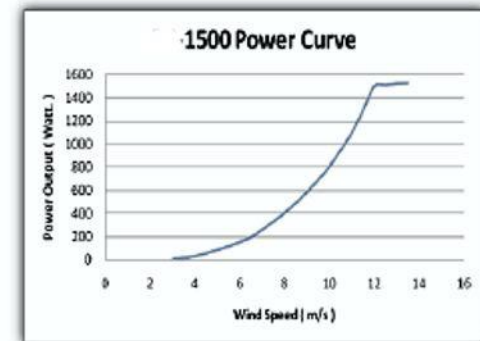
1500W /3000W Wind Turbine

Salient Features

Power Production Curve (vs Wind Speed)



Power Curve



Ordering Information:
Model: CTH-1500 /3000 system

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