

About The Company

WPS 2000 Inc. is involved in designing and manufacturing environmentally-friendly systems for water treatment and energy generation.

Vertical Axis Wind

The Vertical Axis Wind Turbine (VAWT) is a low-speed, high torque, 5 KW Coreless Generator working as an off-grid style for isolated areas.



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Vertical Axis Wind Turbine (VAWT)



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Wind Power

Green Energy

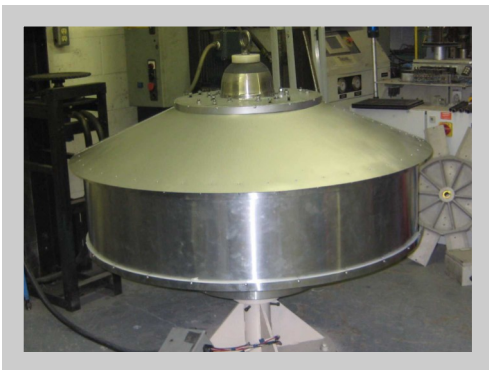
Off The Grid

Advantages

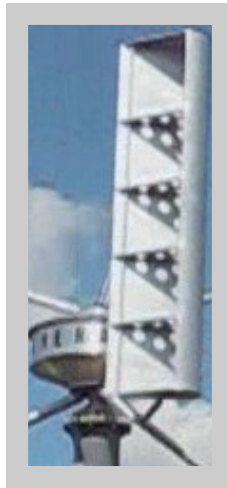
- Silent Operating System
- Maintenance Free
- Simple to Install
- Pollution-Free Electricity
- Omni-directional Low Speed Generator
- Small Footprint Requirement

Coreless Permanent Generator

The generator is specifically designed for low speed vertical axis wind turbine applications. The low speed operating range from 0 to 100 RPM allows for direct drive to the wind turbine which eliminates the need for a gearbox and the losses associated with it. Additionally, the generator incorporates a coreless design so there is no magnetic cogging or core losses allowing smooth and very low resistance to rotation for starting. .

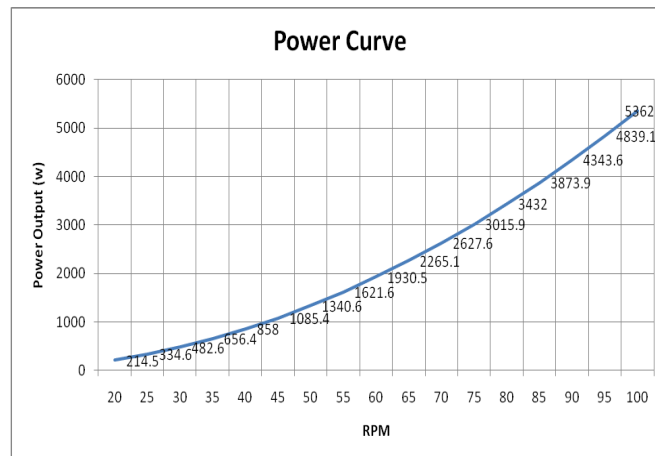


5 KW Coreless Permanent Generator



Blade System

The Lenz Turbine Blades design provides a direct drive initiative for the Vertical Axis Wind Turbine. This allows the turbine to have a low cut-in speed of 3 m/s. The system can utilize wind from varying directions and the system is designed to compensate for high wind as it does not catch more wind than the unit is designed to use. This eliminates any damage to the wind turbine and ensures it will not turn off in stormy weather. We are currently fabricating the S1210 profile to increase the efficiency of the turbine



The above power curve demonstrates the tremendous power generated at very low RPM. This illustrates the effectiveness of the Vertical Axis Wind Turbine in comparison to other wind turbines available in the alternative energy industry.



Vertical Axis Wind Turbine at Test Site