

Vertical Wind Turbine Brochure



*Aeolos wind turbine
SINCE 1986*

Aeolos-V 5kW



Aeolos-V Series
windturbinestar.com

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Specification

Generator Type: Three Phase Permanent Magnet
Rotor Height: 4.8 m (15.7 ft)
Rotor Width: 4.5 m (14.8 ft)
Turbine Weight: 500 kg (1102.3 lbs)
Blade Material: Aluminum Alloy
Blade Quantity: 3 pcs
Working Temperature: -20 °C to 50 °C
Design Lifetime: 20 years

Performance

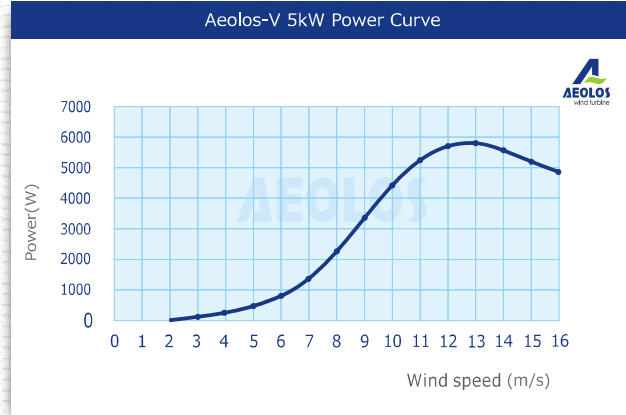
Rated Power: 5000 W
Max Output Power: 6000 W
Cut In Wind Speed: 2.5 m/s (5.6 mph)
Rated Wind Speed: 11 m/s (24.6 mph)
Survival Wind Speed: 52.5 m/s (117.4 mph)
Generator Efficiency: 96%
Noise Level: < 45 dB(A)
Warranty: 5 years

Safety

Blades RPM Limitation: 150 RPM
PWM Dump Load: 7.5kW Box
Mechanical Brake: Auto/Manual

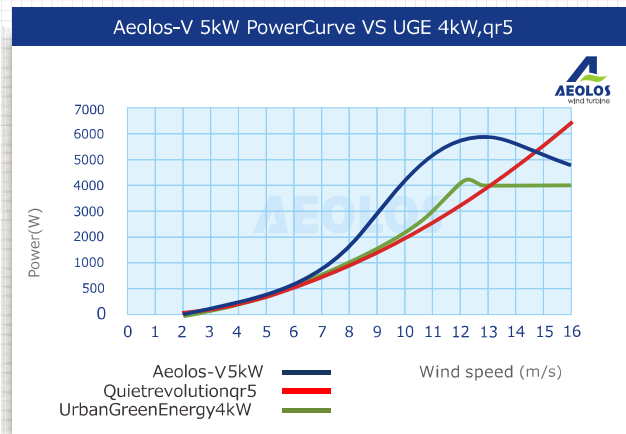
Optional

Remote Monitoring System (Internet/Wireless)
Auto Hydraulic Brake System (Unattended Site)
Off Grid : 48/96 V
Grid Tied : 360 V



Aeolos-V 5kW Wind Turbine Annual Energy Output

Wind Speed(m/s)	Annual Energy Output (KWh)	Wind Speed(m/s)	Annual Energy Output (KWh)
3 m/s	2296 kWh	8 m/s	22442 kWh
4 m/s	5145 kWh	9 m/s	25753 kWh
5 m/s	9247 kWh	10 m/s	28447 kWh
6 m/s	13933 kWh	11 m/s	30621 kWh
7 m/s	18466 kWh	12 m/s	32376 kWh



5 YEAR WARRANTY



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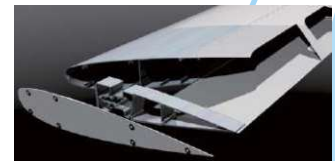
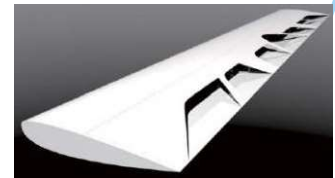
Why Choose Aeolos-V 5kW Wind Turbine?

Triple Safety Protection

Special Blade Design: Aeolos blades use the special aerodynamic design which limits the max rotating speed to 200 rpm even the wind speed is 30m/s or 40m/s. It is safer and more reliable than traditional vertical axis wind turbine.

PWM Dump Load: Aeolos-V 5kW wind turbine has the 7.5kW dump load box with PWM loading function. This will consume the over power output and control the voltage in strong wind speed.

Mechanical Brake: The manual mechanical brake can stop the wind turbine for maintenance or typhoon coming. We have the auto hydraulic brake system for remote installation site without people checking as optional function.

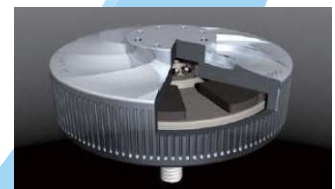


High Efficiency

Low Cut-in Wind Speed: Aeolos-V 5kW could start up with 1.5m/s wind speed and has the power output in 2.5m/s to inverter. This is more efficient than the vertical wind turbines with a 3.5m/s or even 4.5m/s cut in wind speed.

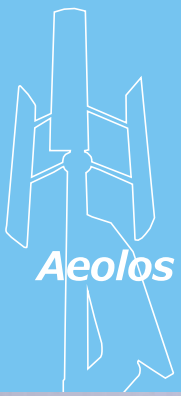
More Annual Output: According to EN61400-2(IEC 61400-2) standard, Aeolos-V 5kW annual output is 9247 kWh at 5m/s wind speed. The annual output at 10m/s is 28447 kWh.

MPPT Charger for OffGrid: Aeolos-V 5kW use 48V/96V MPPT charging controller to increase the charging efficiency to 94%. It can charge the battery bank when wind speed is above 3.0m/s.



5 YEAR WARRANTY



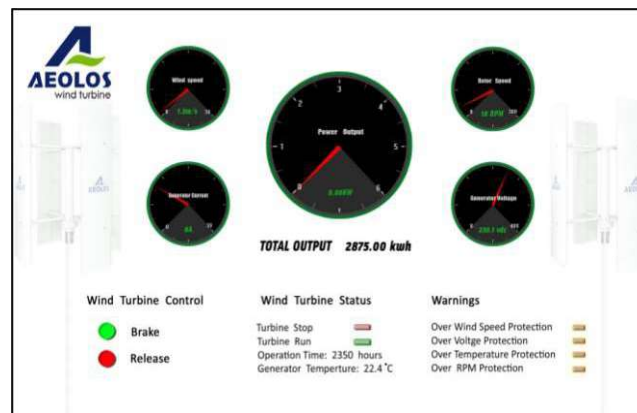


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Intelligence Control

Remote Monitoring System: Customer can remote monitor the wind turbine operation, wind speed and power output in office, home, airport and anywhere through the internet.



Auto Hydraulic Brake System: It is suitable for the remote installation sites, like the island, telecommunication tower station which does not have people checking and monitoring. This system can auto stop the wind turbine in over voltage, over wind speed, generator over temperature and all any other faults. It can auto release the wind turbine to run after the abnormal warnings.



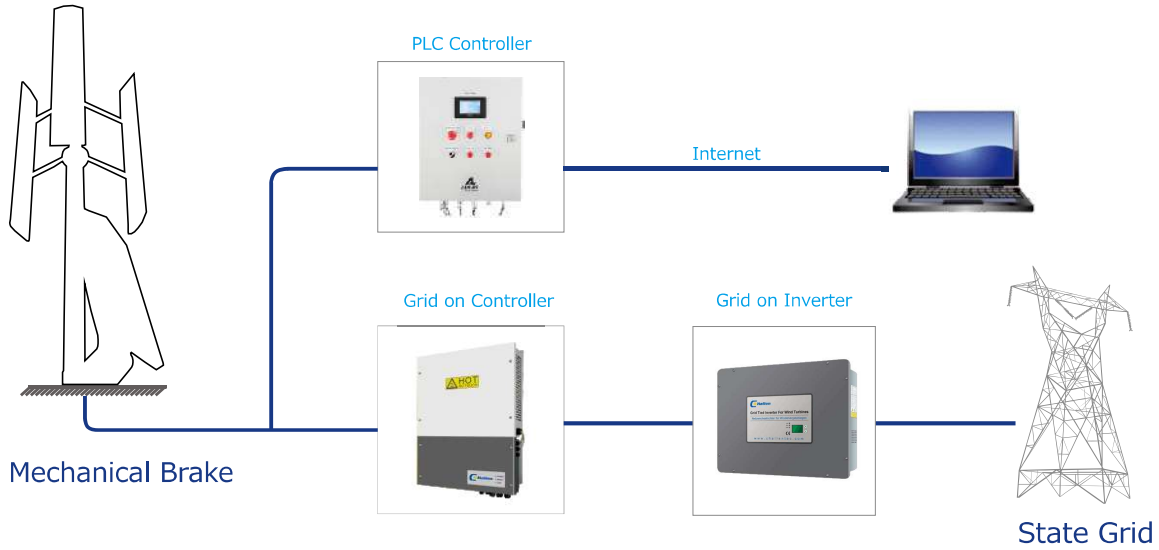


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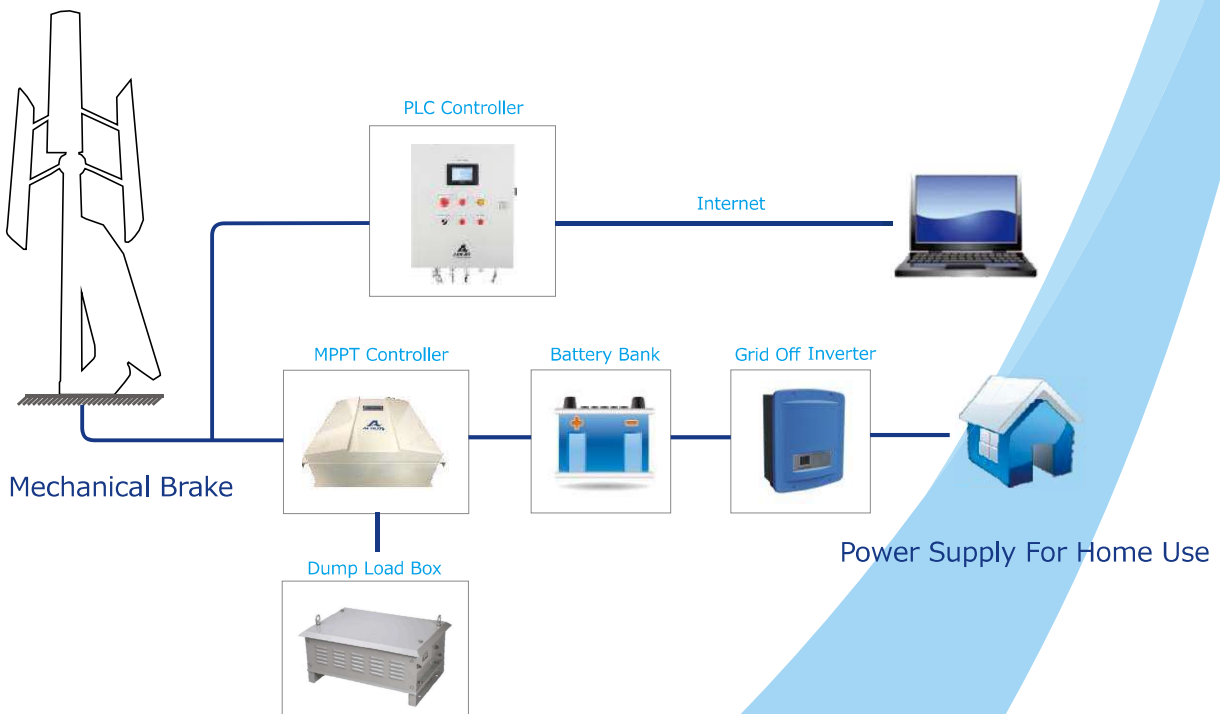


Wiring Diagram

Grid-on



Grid-off



5 YEAR WARRANTY

