



Vertical Wind Turbine Brochure

Aeolos wind turbine
SINCE 1986



Aeolos-V 3kW

AEOLOS



Aeolos-V
windturbinestar.com

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Specification

Generator Type:	Three Phase Permanent Magnet
Rotor Height:	3.6m (11.81ft)
Rotor Width:	2.4m (7.87ft)
Turbine Weight:	106kg (235.6lbs)
Blades Material:	Aluminum Alloy
Blade Quantity:	3 pcs
Working Temperature:	-20 °C to 50 °C
Design Lifetime:	20 years

Performance

Rated Power:	3000 W
Max Output Power:	3600 W
Cut In Wind Speed:	2.5m/s (5.58mph)
Rated Wind Speed:	12m/s (26.84mph)
Survival Wind Speed:	55m/s (122.65mph)
Generator Efficiency:	96%
Noise Level:	< 45 dB(A)
Warranty:	5 year

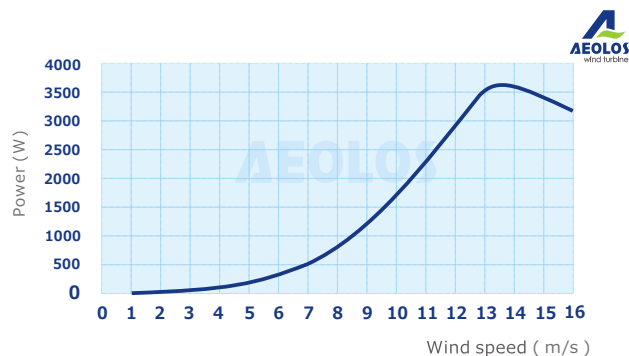
Safety

Blades RPM Limitation:	320 RPM
PWM Dump Load:	5kW Box
Mechanical Brake:	Manual

Optional

Remote Monitoring System (Internet/Wireless)	
Auto Hydraulic Brake System (Unattended Site)	
Off Grid :	48 V or 120 V
Grid Tie :	300 V

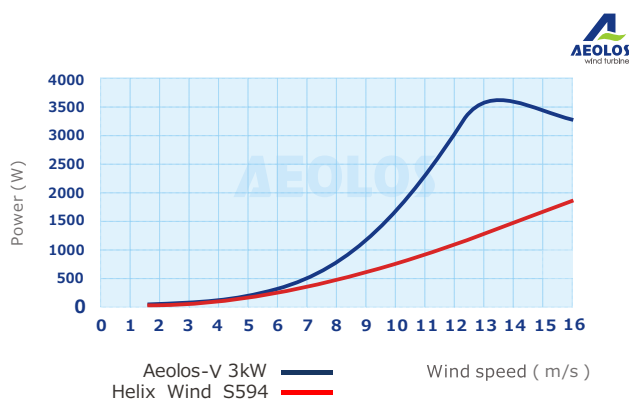
Aeolos-V 3kW Power Curve



Aeolos-V 3kW Wind Turbine Annual Energy Output

Wind Speed(m/s)	Annual Energy Output (kWh)	Wind Speed(m/s)	Annual Energy Output (kWh)
3 m/s	613 kWh	8 m/s	10240 kWh
4 m/s	1419 kWh	9 m/s	14235 kWh
5 m/s	2681 kWh	10 m/s	18501 kWh
6 m/s	4485 kWh	11 m/s	22356 kWh
7 m/s	6964 kWh	12 m/s	26368 kWh

Aeolos-V 3kW Power , Helix S594



5 YEAR WARRANTY



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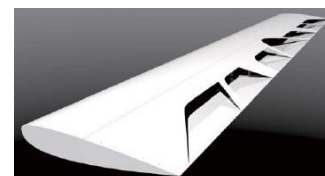
Why Choose Aeolos V 3kW Wind Turbine?

Triple Safety Protection

Special Blade Design: Aeolos blades use the special aerodynamic design which limits the max rotating speed to 320 rpm even the wind speed is 30m/s or 40m/s. It is more safe and reliable than traditional vertical axis wind turbine.

PWM Dump Load: Aeolos-V 3kW wind turbine has the 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.

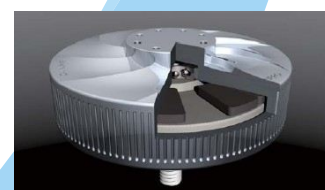


High Efficiency

Low Cut-in Wind Speed: Aeolos-V 3kW 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.

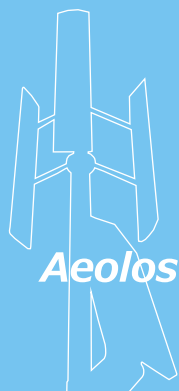
More Annual Output: According to the AWEA standard, Aeolos-V 3kW annual output is 2681 kWh at 5m/s wind speed. The annual output at 10m/s is 18501 kWh.

MPPT Charger For Off Grid: Aeolos-V 3kW use 48V 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



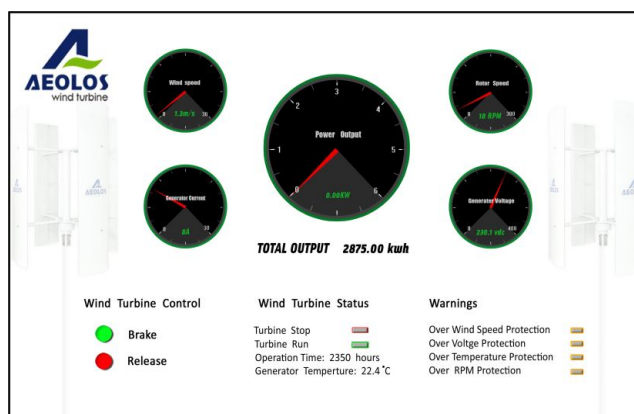


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Intelligence Control

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.

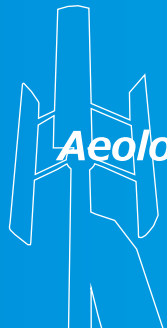


5 YEAR WARRANTY



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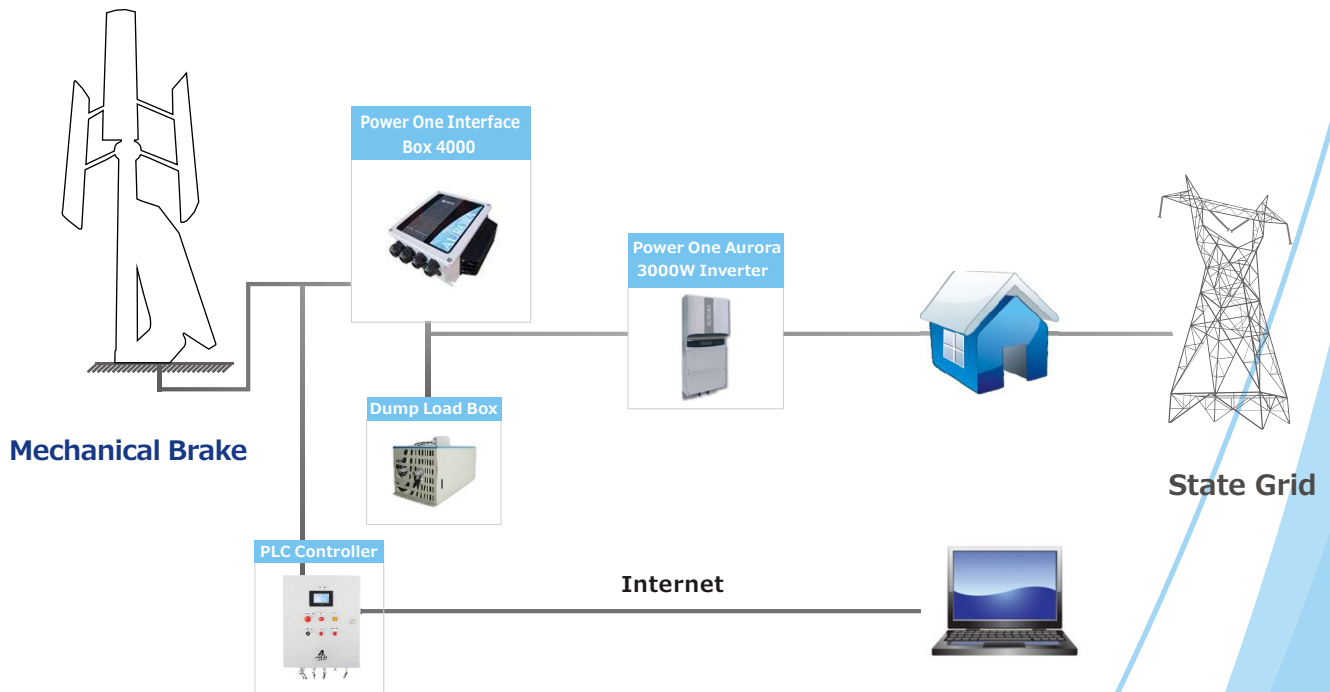


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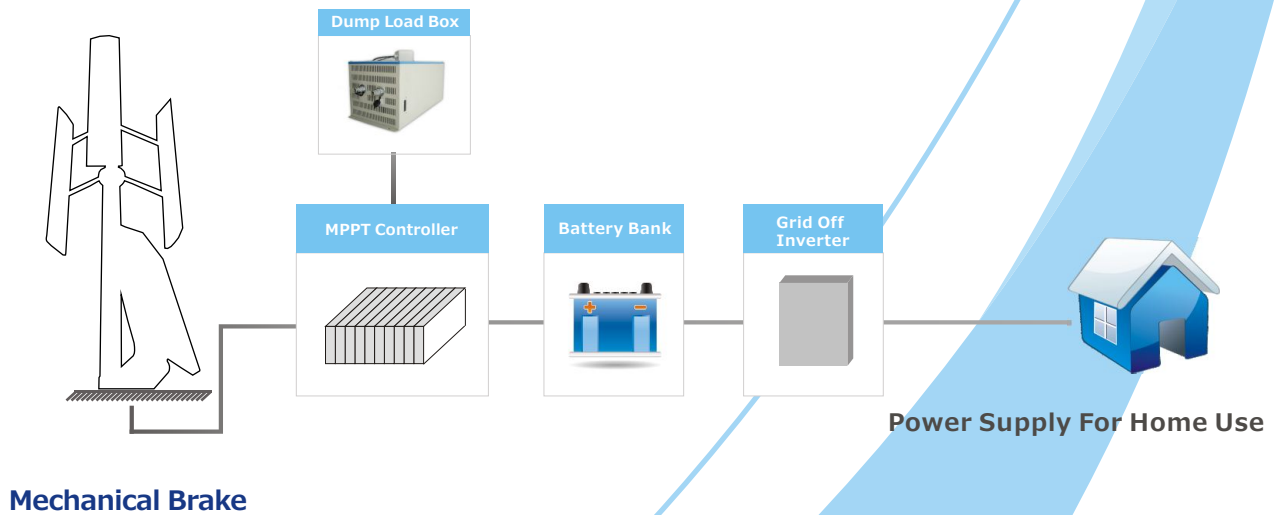


Wiring Diagram

Grid-on



Grid-off



5 YEAR WARRANTY

