



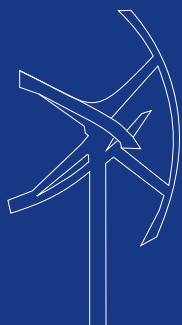
Vertical Wind Turbine Brochure

Aeolos wind turbine
SINCE 1986



Aeolos-V 10kW

AEOLOS



Aeolos-V
windturbinestar.com



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Specification

Generator Type:	Three Phase Permanent Magnet
Rotor Height:	5.3m (17.38 ft)
Rotor Width:	4.2m (13.77 ft)
Turbine Weight:	385kg (848.8 lbs)
Blades Material:	Fiber Glass
Blade Quantity:	3 pcs
Working Temperature:	-30 °C to 60 °C
Design Lifetime:	20 years
Working Humidity:	≤95%
Protection Class:	Ip55

Performance

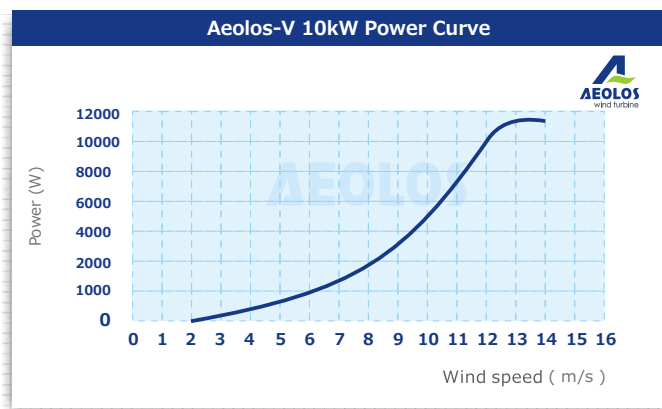
Rated Power:	10 KW
Max Output Power:	12 KW
Cut In Wind Speed:	2.5m/s (5.6 mph)
Rated Wind Speed:	12m/s (26.8 mph)
Survival Wind Speed:	55m/s (122.65 mph)
Generator Efficiency:	96%
Noise Level:	< 45 dB(A)
Warranty:	5 year

Safety

Blades RPM Limitation:	150 RPM
PWM Dump Load:	15 kW Box
Mechanical Brake:	Manual/Auto

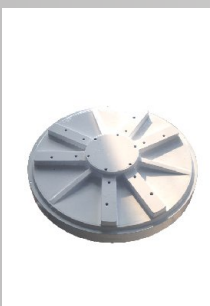
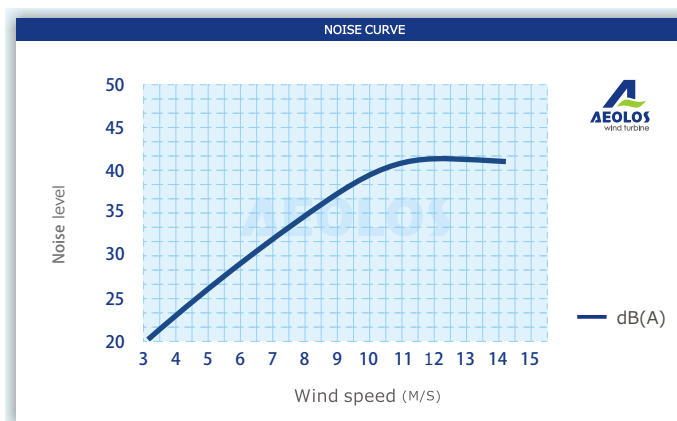
Optional

Remote Monitoring System	(Internet/Wireless)
Auto Hydraulic Brake System	(Unattended Site)
Off Grid :	96V or 240 V
Grid Tie :	380 V



Aeolos-V 10kW Wind Turbine Annual Energy Output

Wind Speed(m/s)	Annual Energy Output (kWh)	Wind Speed(m/s)	Annual Energy Output (kWh)
3 m/s	2278 kWh	8 m/s	26280 kWh
4 m/s	4380 kWh	9 m/s	35741 kWh
5 m/s	6657 kWh	10 m/s	42924 kWh
6 m/s	11386 kWh	11 m/s	68328 kWh
7 m/s	17958 kWh	12 m/s	89352 kWh



5 YEAR WARRANTY



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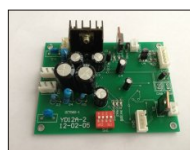
Why Choose AEOLOS-V 10kW Wind Turbine?

Triple safety protections

Aeolos-V 10kW has triple safety protections: PWM electronic brake, auto hydraulic brake and 24v UPS.



+



PWM Electronic Brake



Auto Hydraulic Brake



24V UPS

Protections For:

**Over Wind speed
Over DC voltage
Over DC current
Over temperature
Over RPM
Emergency Stop
Power lose/ Grid failure
All other faults**

Reliable and less maintenance design

Aeolos design the wind turbines according to IEC 61400-2 SWT Class-I 50m/s wind speed and Extreme operating gust 25m/s wind speed. The wind turbine and tower were strictly designed and tested by the real wind farm running and FEA in computer.

5 YEAR WARRANTY





Aeolos wind turbine
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More power output

$$\text{Power} = 0.5 \times \rho \times v^3 \times S \times \eta \times C_p$$

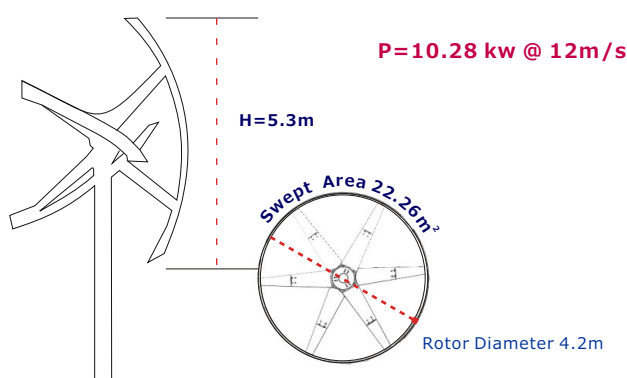
V= Wind Speed

N1= Generator Efficiency

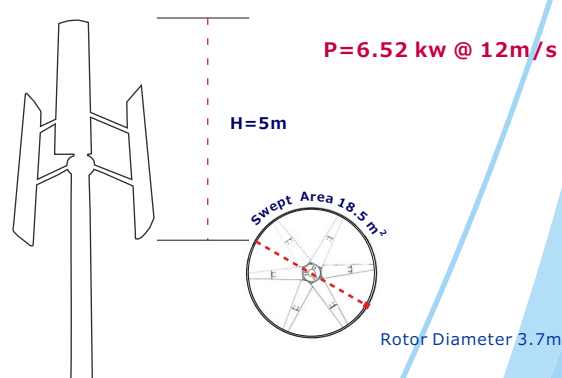
S= Rotor Swept Area

Cp= Wind Energy Utilize Ratio

So there are three factors deciding the wind turbine power output (Rotor Swept Area, Generator Efficiency and Wind energy utilize ratio) at the same wind speed. Aeolos-V 10kW choose **the larger rotor diameter, high efficiency generator and high Cp blades design** to produce more power output than other 10 kW vertical wind turbines.



Aeolos-V 10kW Wind Turbine

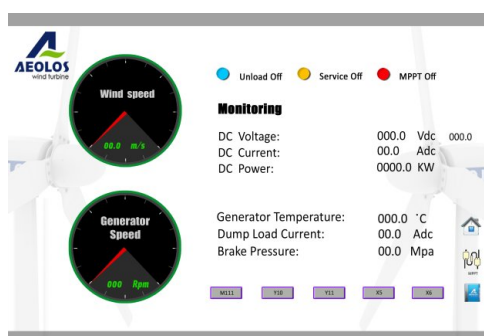


Wind Turbine B

Intelligent Control System

Aeolos programmable Logic controller (PLC) with below features:

- Flexibility: most of setting parameters are adjustable. User could change the setting parameters according to their own situation.
- Modular design: All of components are modular design, it is easy to replace and scalable.
- High-quality: Aeolos controller integrated the best quality components from ABB and Omron.



Controller

5 YEAR WARRANTY



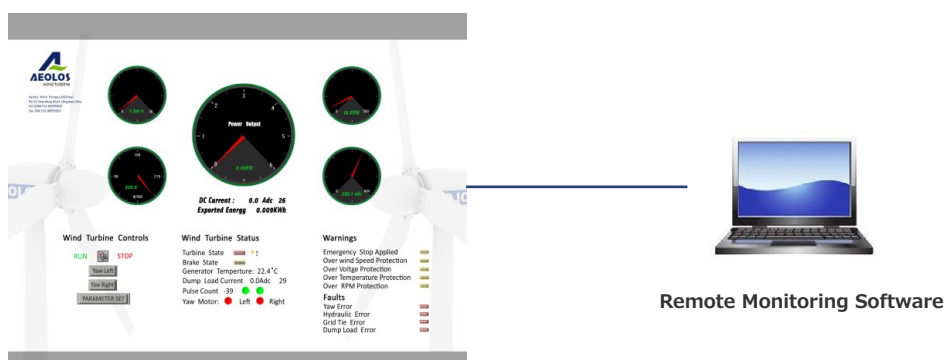
AEOLIS
wind turbine 4

Aeolos wind turbine SINCE 1986



Remote Monitoring system

Aeolos-V 10kW provides remote monitoring system for our customers. You can remote monitor, control and record your wind turbine through internet at home, office, airport or anywhere.



5 Years Warranty

Aeolos wind turbine has 5 years warranty, including all of the parts purchased from Aeolos. For the small components, we will send to customer via DHL or Fedex which will arrive most of cities in the world within 7 days.



Aeolos + Package

Aeolos provided some special packages for special places such as low wind speed area, low temperature area, Island, desert, wind & solar hybrid system, Telecom station. Aeolos + service could provide the most suitable products for different customers.



Low temperature



Island



Desert



Telecom Station



Low wind speed

5 YEAR WARRANTY

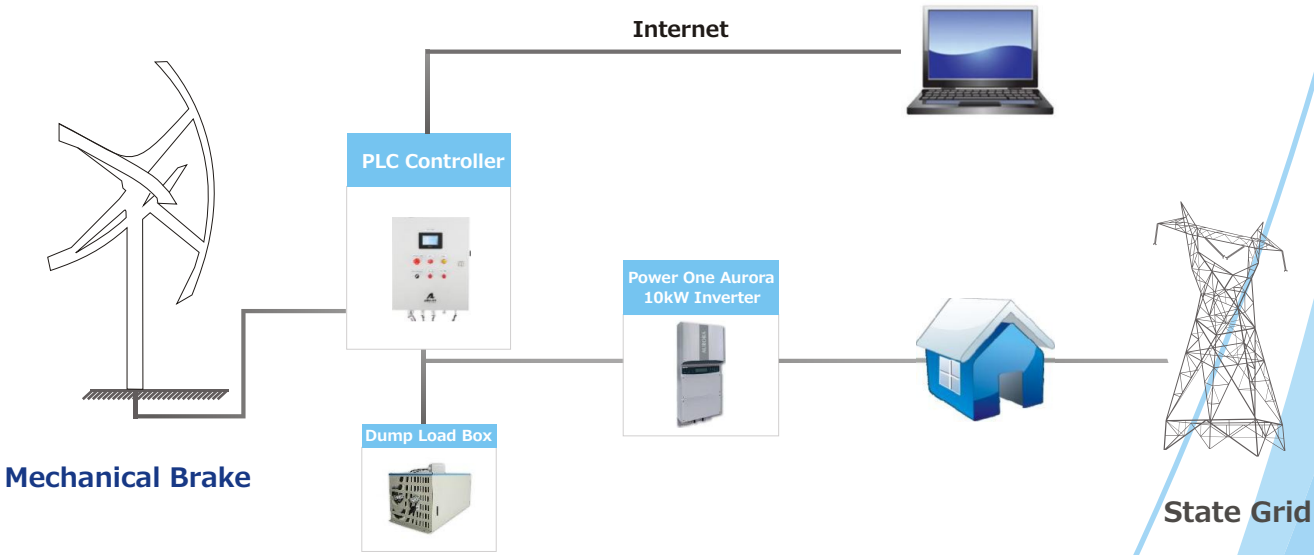


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Wiring Diagram

Grid-on



Grid-off

