



Aeolos-H 10KW



*Aeolos wind turbine
SINCE 1986*

windturbinestar.com



Aeolos-H 10KW

windturbinestar.com



Turbine

Rated power 10 kW
 Max Power 13kW
 Cut-in wind speed 3 m/s (6.7 mph)
 Rated Wind speed 10m/s (22.3 mph)
 Survival wind speed 45m/s (100.7 mph)
 Design lifetime 20 years
 Overall weight 420kg (925.9 lbs)

Rotor

Rotor diameter 8.0 m (26.2 ft)
 swept area 50.2m² (538.9 ft²)
 Rotor speed 180 rpm
 Blade material Glass Fiber

Generator

Drive Type Direct Drive (Without Gearbox)
 Generator Type Permanent Magnet Generator
 Generator Voltage 200V-450V
 Efficiency 95%

Controller

Control System PLC with Touch Screen
 Remote Monitoring Optional

Safety

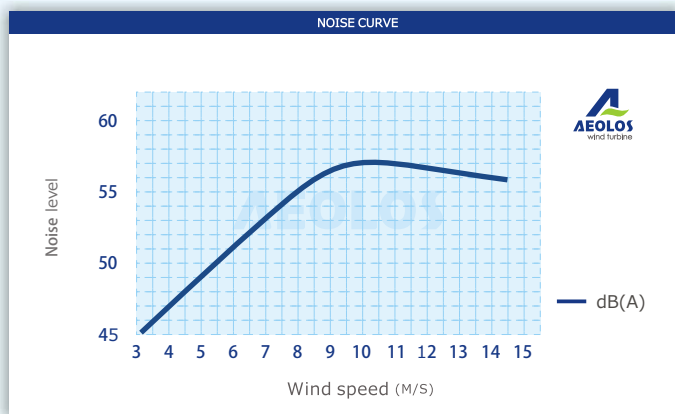
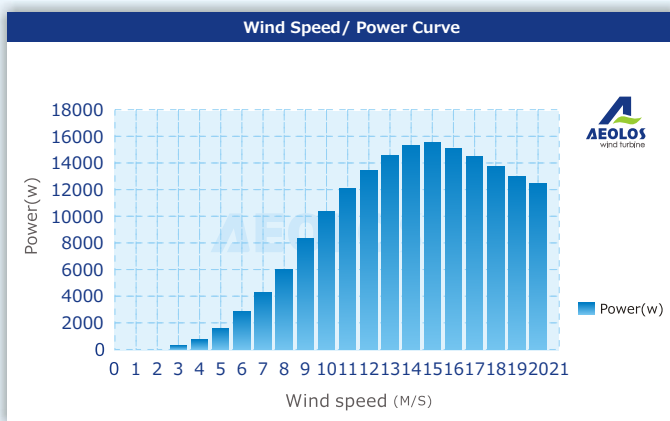
Main Brake System Yaw Control & Electronic Brake
 Secondary Brake System Mechanical Hydraulic Brake

Tower

Monopole Tower 12m 18m 24m 30m
 Hydraulic Tower 12m 18m 24m

Warranty

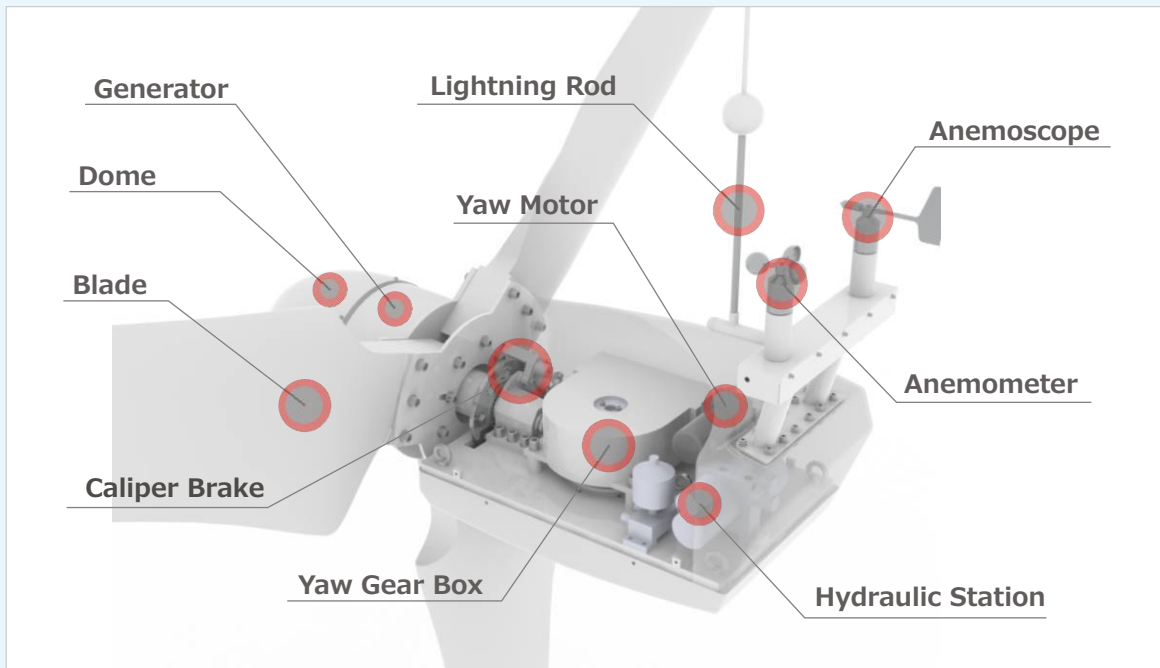
Standard warranty 5 years



Aeolos-H 10kW Wind Turbine Output								
Wind Speed(m/s)	3	4	5	6	7	8	9	10
Generator Power(w)	342	920	1860	2926	4200	6000	8200	10080
Annual Energy Output(kwh)	2996	8059	16294	25632	36792	52560	71832	88301

5 YEAR WARRANTY





Why Choose AEOLOS-H 10kW Wind Turbine?

Triple Safety & Brake Protection

Yaw Control: PLC controller will control the yaw motor to deviate wind turbine from the wind direction at an angle of 30 degrees, 60 degrees or 90 degrees when it detects the faults of over wind speed, over voltage or generator over temperature.

Electronic Brake: Aeolos-H 10kW has a 15kW dump load box and uses PWM technology as the electronic brake control. PWM could control the over voltage and turbine over speed smoothly.

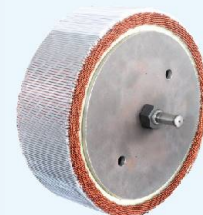
Mechanical Brake: As the secondary protection system, mechanical brake was driven by high quality German hydraulic station. It could stop the wind turbine rotor in over speed, over voltage, over temperature or grid failure.



High Efficiency & Reliable Design

Aeolos-H 10kW uses a directly driven generator without gearbox or booster device. The generator is directly driven by blade rotor. It has 30% more power output than induction generator at the same wind speed.

The directly driven design is more reliable than the induction generator with gearbox. All of the mechanical and electronic components choose the best quality manufacturers like SKF, ABB and Omron. All of designs follow the less or free maintenance principles.



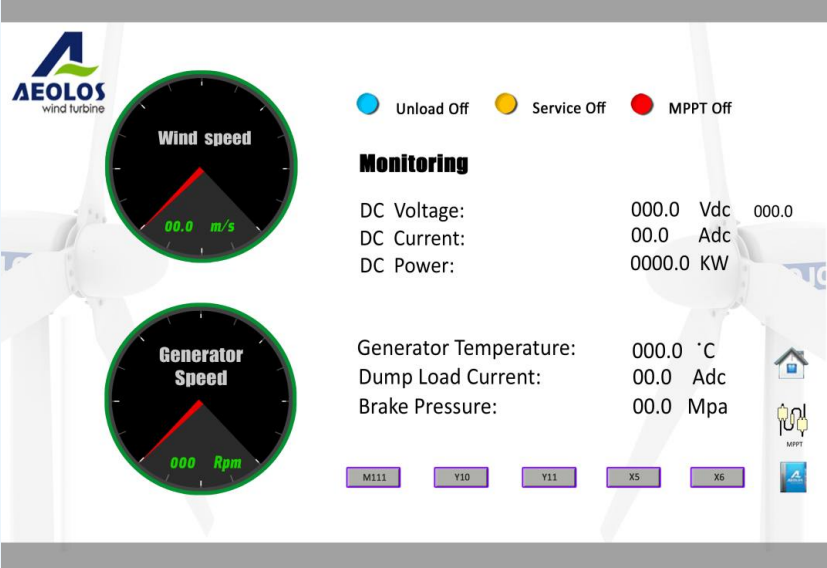
5 YEAR WARRANTY





Intelligent Control & Remote Monitoring

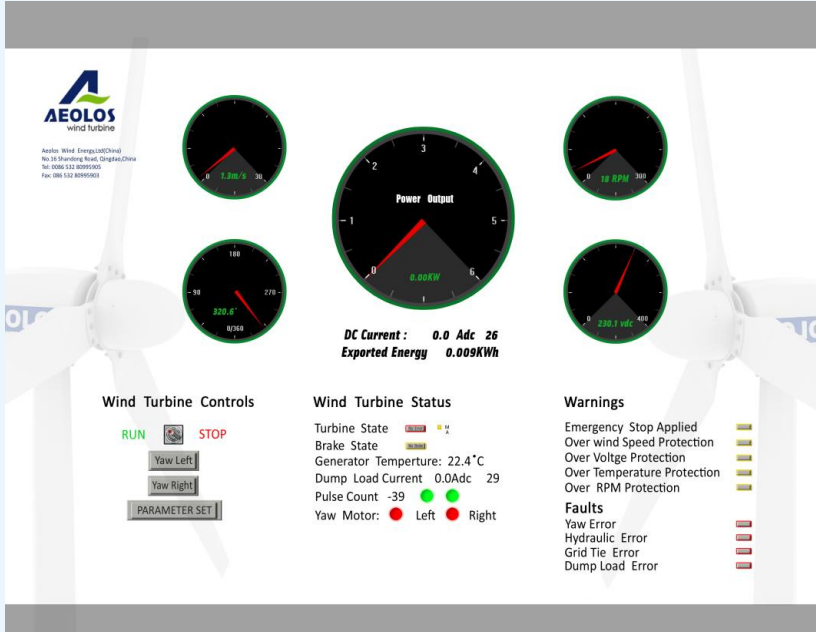
Aeolos employs Programmable logic controller (PLC) and touch screen as the control system. All the operation data like wind speed and power output can be recorded and customer can easily adjust the protection data of wind speed, voltage, current and rpm through controller.



Touch Screen



Aeolos provides remote monitoring function to the customers. You can remotely monitor and control the wind turbine operation through wireless or wire internet in home, office, airport and anywhere.



Remote Monitoring Software

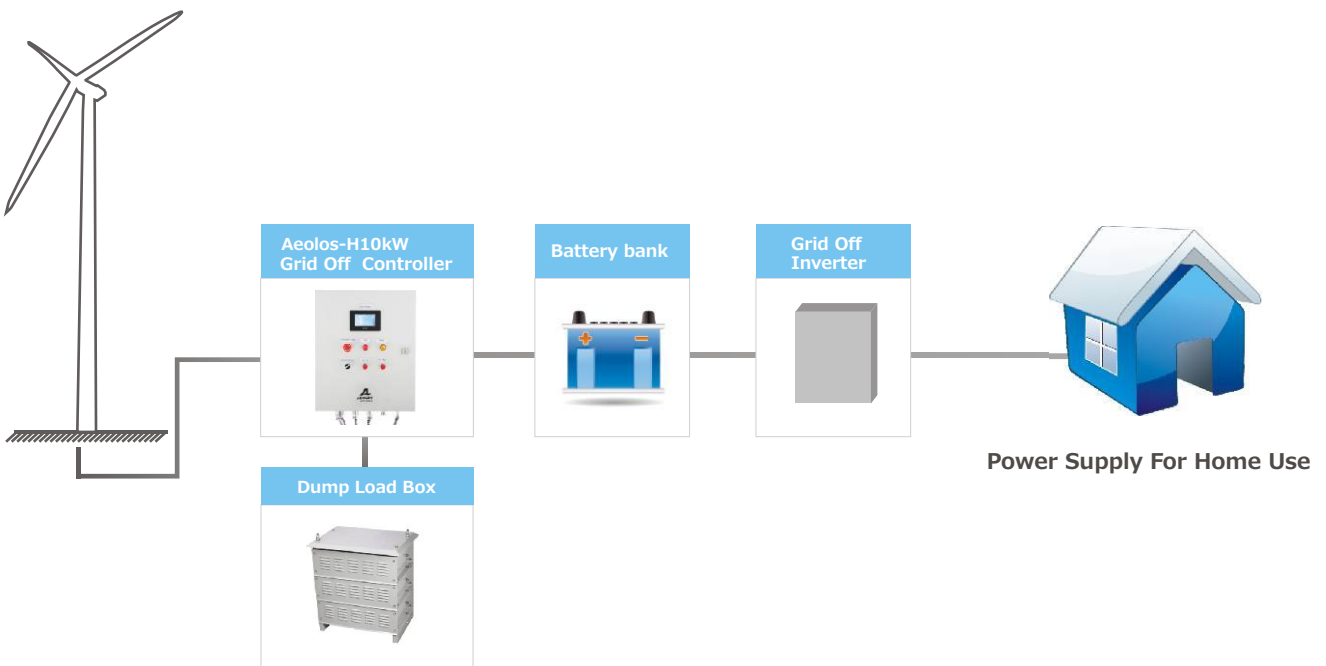




Wire Diagram *Grid-on*



Grid-off



Aeolos Wind Energy,Ltd (UK)

27 Old Gloucester Street, London WC1N 3AX
United Kingdom
Tel: +44 208 242 1884
E-mail:sales@windturbinestar.com

5 YEAR WARRANTY

