



Aeolos-H 30KW



***Aeolos wind turbine
SINCE 1986***

windturbinestar.com



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Turbine

Rated power 30 kW
 Max Power 40 kW
 Cut-in wind speed 3 m/s (6.7 mph)
 Rated Wind speed 11 m/s (24.6 mph)
 Survival wind speed 50 m/s (111.5 mph)
 Design lifetime 20 years
 Overall weight 980 kg (2160.5 lbs)

Rotor

Rotor diameter 12.5 m (41.0 ft)
 swept area 122.7 m² (1319.6 ft²)
 Rotor speed 90 rpm
 Blade material Fiber Glass

Generator

Drive Type Direct Drive (Without Gearbox)
 Generator Type Permanent Magnet Generator
 Generator Voltage 360 VDC (Grid-off)
 450 VDC (Grid-on)
 Efficiency 95%

Controller

Control System PLC with Touch Screen
 Remote Monitoring Optional

Safety

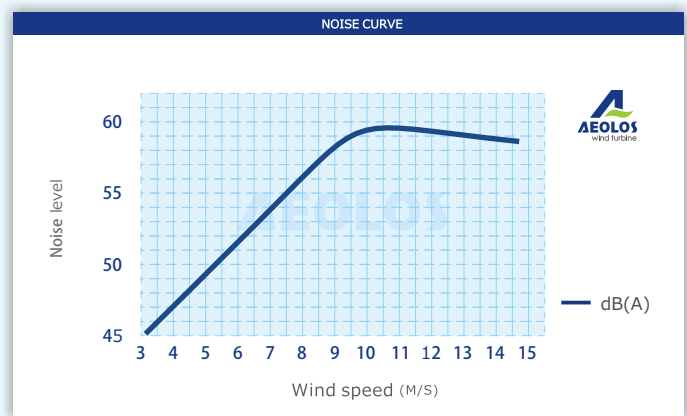
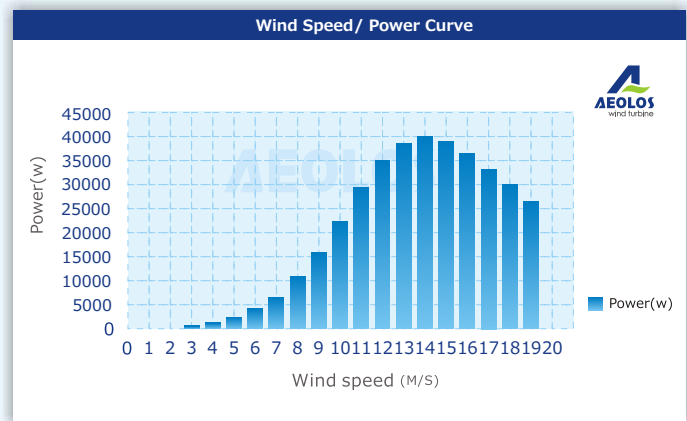
Main Brake System Yaw Control & Electronic Brake
 Secondary Brake System Mechanical Hydraulic Brake

Tower

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

Warranty

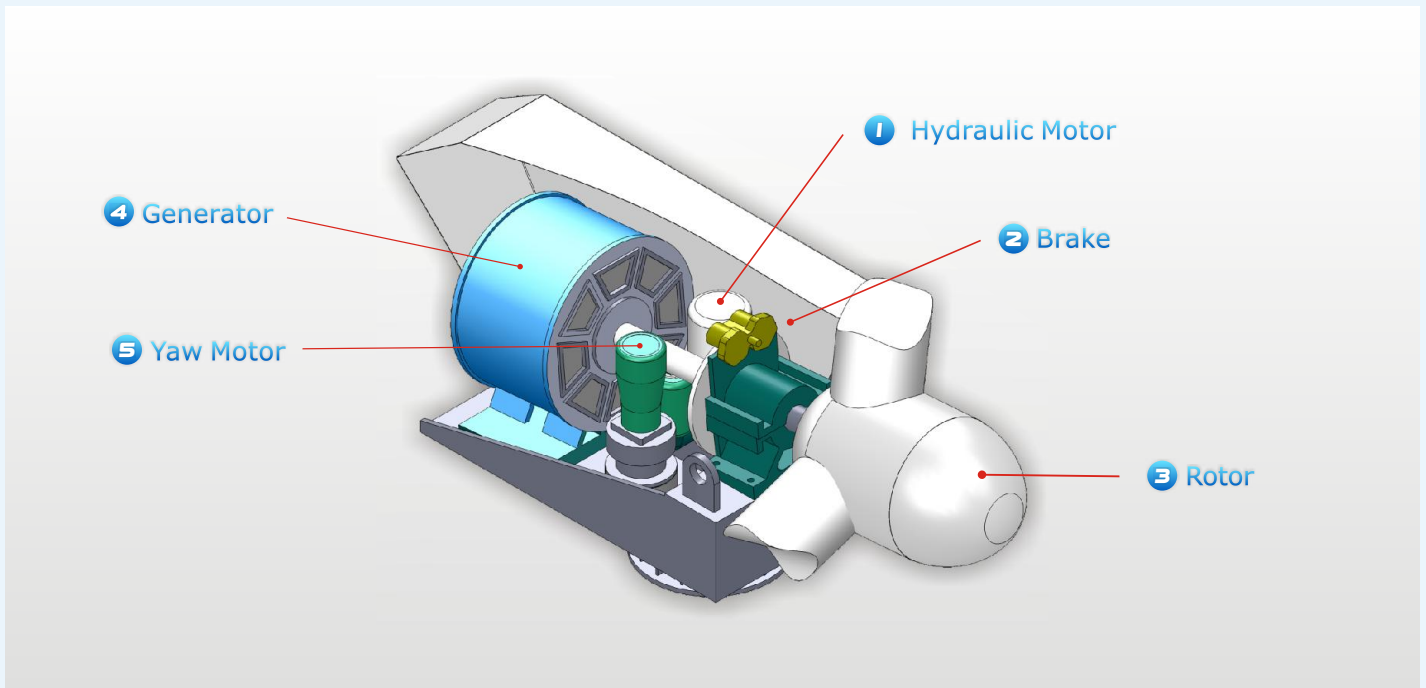
Standard warranty 5 years



Aeolos-H 30kW Wind Turbine ANNUAL Output										
Wind Speed(m/s)	3	4	5	6	7	8	9	10	11	
Generator Power(W)	450	1120	2300	4090	6780	10500	15500	22050	29600	
Annual Energy Output(kWh)	7884	17660	34252	57325	89089	128772	176514	231790	311155	

5 YEAR WARRANTY





Why Choose AEOLOS-H 30kW 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 30kW has a 45kW dump load box and uses PWM technology as the electronic brake control. PWM could control the over voltage and turbine over speed smoothly.

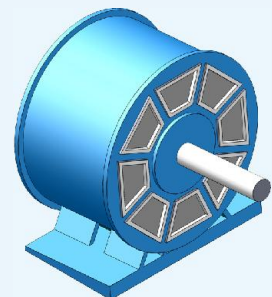
Mechanical Brake: As the secondary protection system, mechanical brake was driven by high quality German hydraulic station. It could stop the wind turbine rotor in over speed, over voltage, over temperature or grid failure.



High Efficiency & Reliable Design

Aeolos-H 30kW 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.



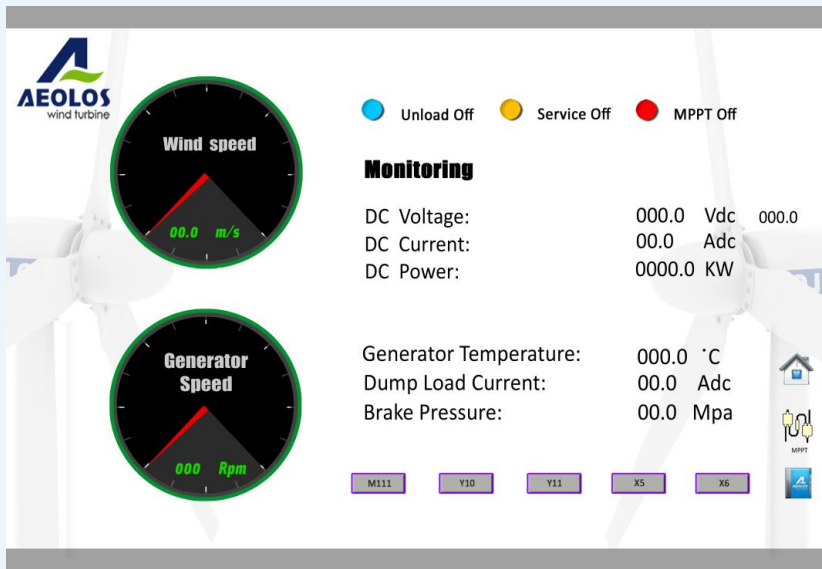
5 YEAR WARRANTY





Intelligent Control & Remote Monitoring

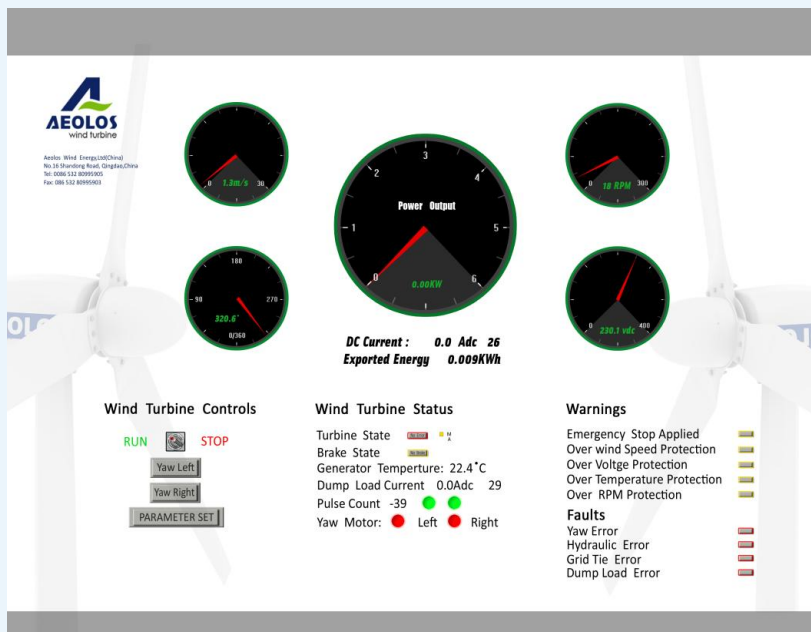
Aeolos employs Programmable logic controller (PLC) and touch screen as the control system. All the operation data like wind speed and power output can be recorded and customer can easily adjust the protection data of wind speed, voltage, current and rpm through controller.



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



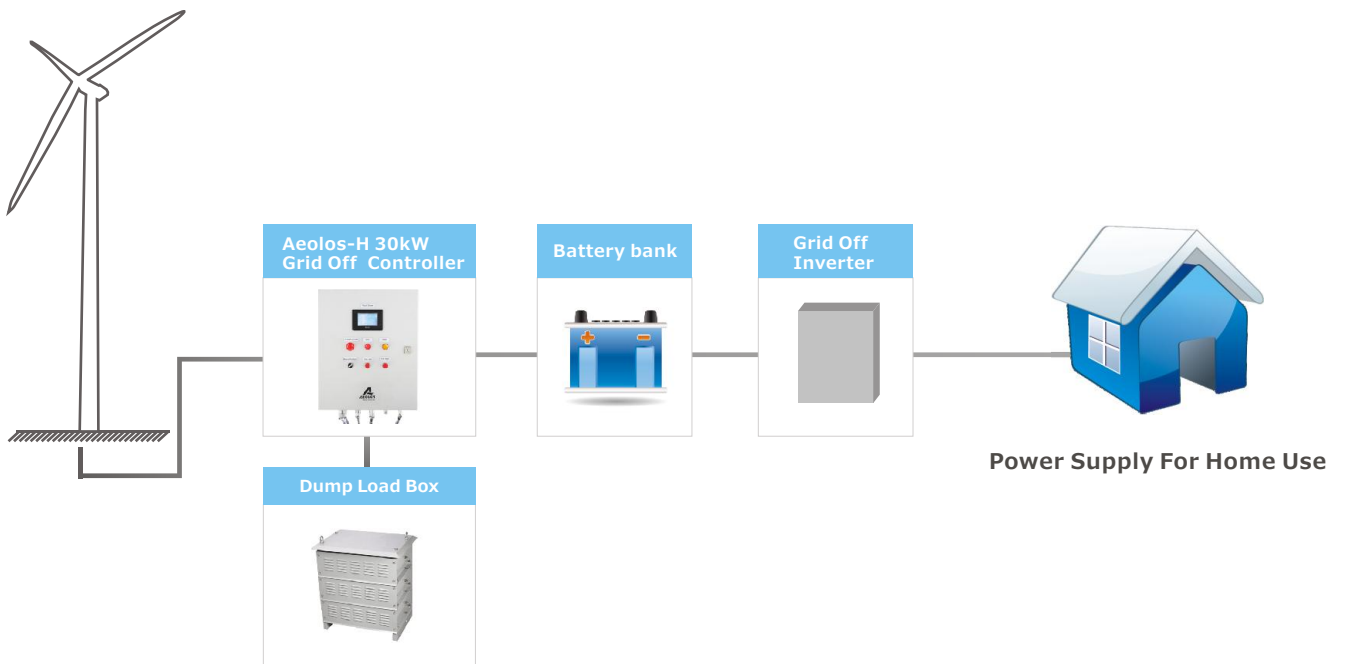


Wire Diagram

Grid-on



Grid-off



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5 YEAR WARRANTY

