



Aeolos-H 20KW



***Aeolos wind turbine
SINCE 1986***

windturbinestar.com



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windturbinestar.com



Turbine

Rated power	20 kW
Max Power	25KW
Cut-in wind speed	3 m/s (6.7 mph)
Rated Wind speed	10m/s (22.3 mph)
Survival wind speed	50m/s (111.5 mph)
Design lifetime	20 years
Overall weight	820kg (1807.8lbs)

Rotor

Rotor diameter	10.0 m (32.8 ft)
swept area	78.5m ² (844.5ft ²)
Rotor speed	90 rpm
Blade material	Fiber Glass

Generator

Drive Type	Direct Drive (Without Gearbox)
Generator Type	Permanent Magnet Generator
Generator Voltage	100V - 380V
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

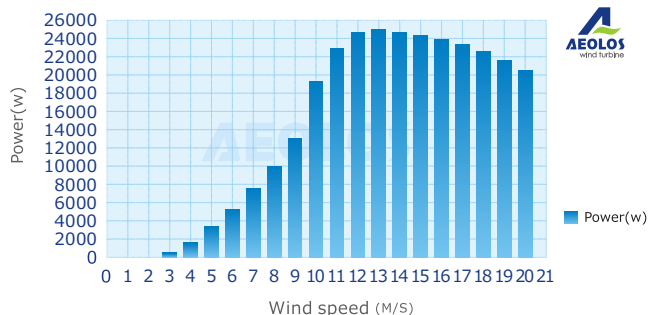
Tower

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

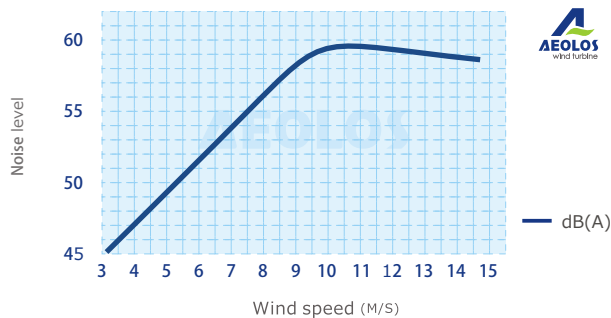
Warranty

Standard warranty	5 years
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Wind Speed / Power Curve



NOISE CURVE

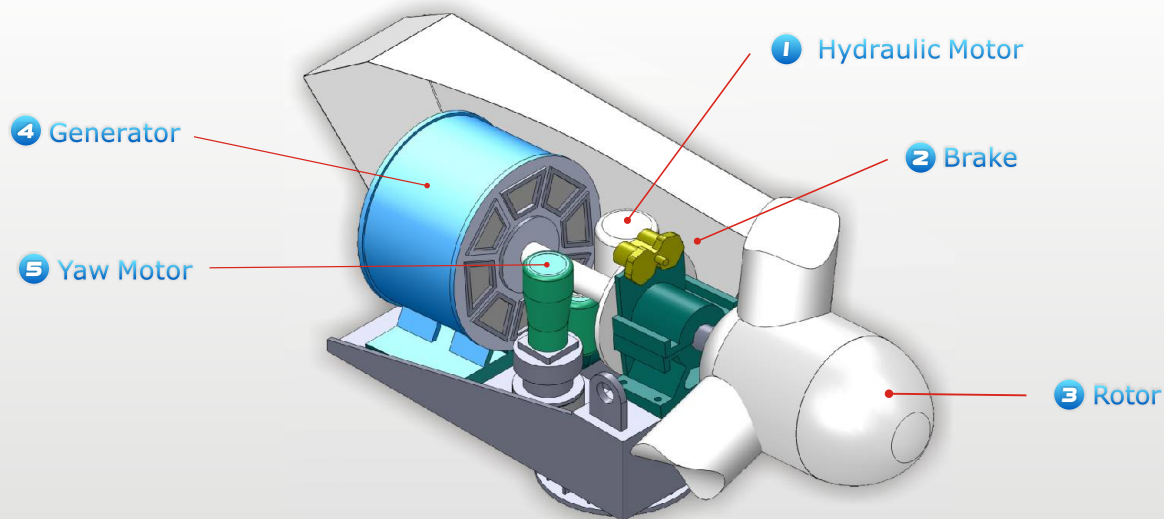


Aeolos-H 20kW Wind Turbine Output

Wind Speed(m/s)	3	4	5	6	7	8	9	10
Generator Power(w)	616	2202	3500	5098	7200	10210	13640	19800
Annual Energy Output(kwh)	5395	19288	30660	44659	63072	89440	119494	173448

5 YEAR WARRANTY





Why Choose AEOLUS-H 20kW 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 20kW has a 30kW dump load box and uses PWM technology as the electronic brake control. PWM could control the over voltage and turbine over speed smoothly.

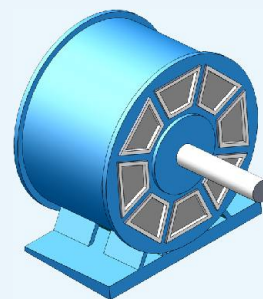
Mechanical Brake: As the secondary protection system, mechanical brake was driven by high quality German hydraulic station. It could stop the wind turbine rotor in over speed, over voltage, over temperature or grid failure.



High Efficiency & Reliable Design

Aeolos-H 20kW 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.



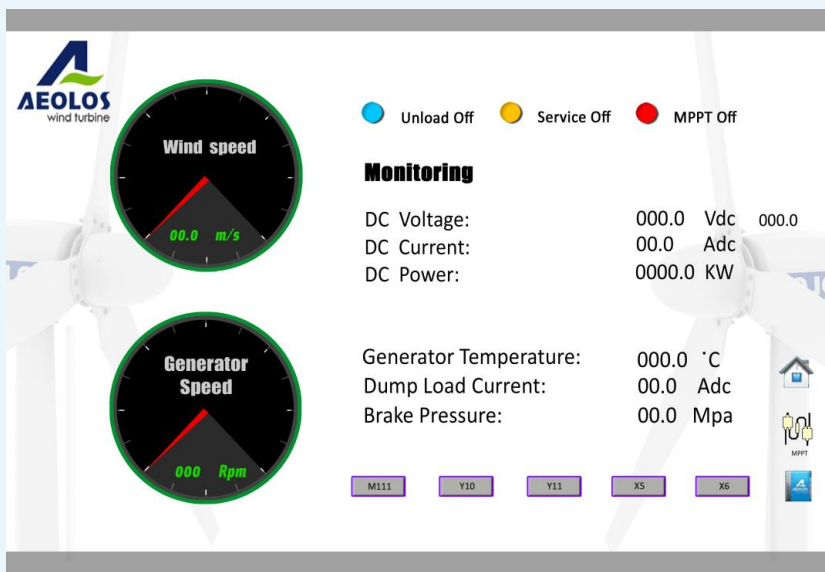
5 YEAR WARRANTY





Intelligent Control & Remote Monitoring

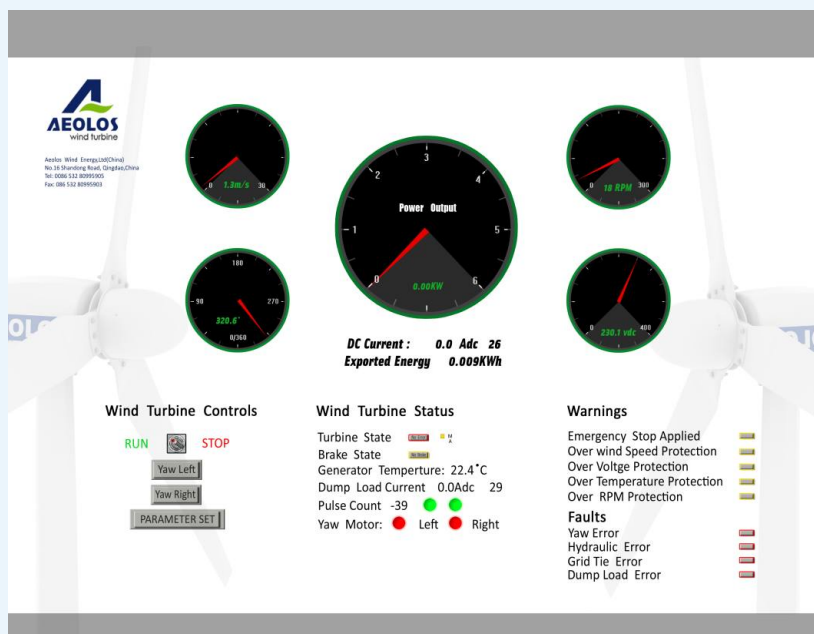
Aeolos employs Programmable logic controller (PLC) and touch screen as the control system. All the operation data like wind speed and power output can be recorded and customer can easily adjust the protection data of wind speed, voltage, current and rpm through controller.



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



5 YEAR WARRANTY



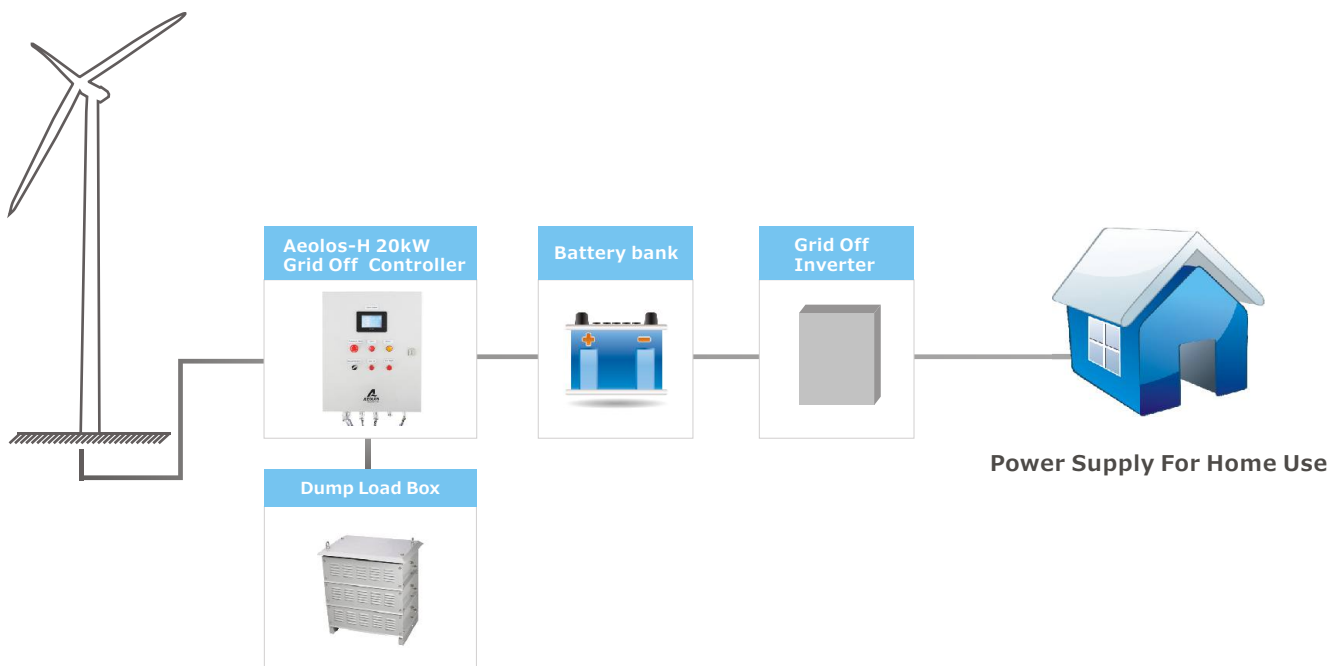


Wire Diagram

Grid-on



Grid-off



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5 YEAR WARRANTY

