



***Aeolos-H 3KW  
Grid-off***



***Aeolos wind turbine  
SINCE 1986***



# Aeolos-H 3KW

windturbinestar.com



## TURBINE

Rated power 3 kW  
 Start wind speed 2.5 m/s  
 Cut-in wind speed 3.0 m/s (6.7 mph)  
 Cut-out wind speed 25 m/s (55.9 mph)  
 Survival wind speed 45 m/s (100.7 mph)  
 Design lifetime 30 years  
 Overall weight 138 kg (304.2 lbs) including generator and blades

## ROTOR

Rotor diameter 5.0 m (16.4 ft)  
 Rotor speed 400 rpm  
 Blade material Glass fiber

## GENERATOR

Frequency 50 Hz or 60 Hz (System Output)  
 Voltage 120 VDC  
 Type Three Phase Permanent magnetic generator  
 Generator efficiency >0.96

## CONTROL & SAFETY SYSTEM

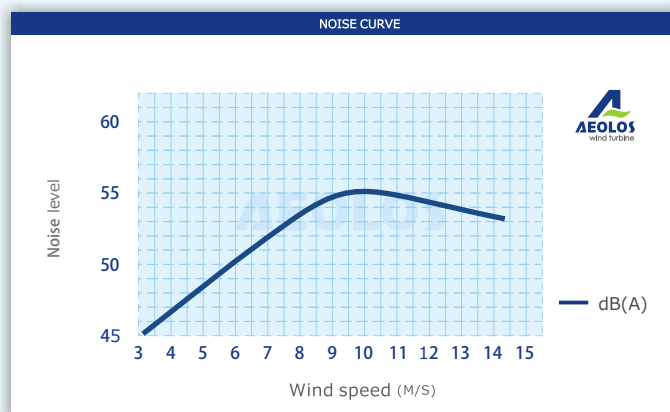
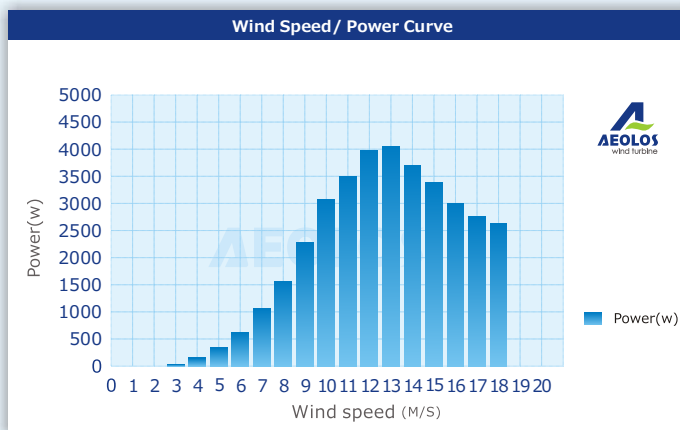
Main brake system Yaw and Electronic brake system

## TOWERS

Free standing tower 9 m  
 Guyed tower 12 m

## WARRANTY

Standard warranty 5 years  
 extended warranty 10 years



Aeolos-H 3kW Wind Turbine Output								
Wind Speed(m/s)	3	4	5	6	7	8	9	10
Generator Power(w)	60	165	345	620	1020	1560	2260	3050
Annual Energy Output(kWh)	1051	2602	5138	8690	13403	19132	25737	32062

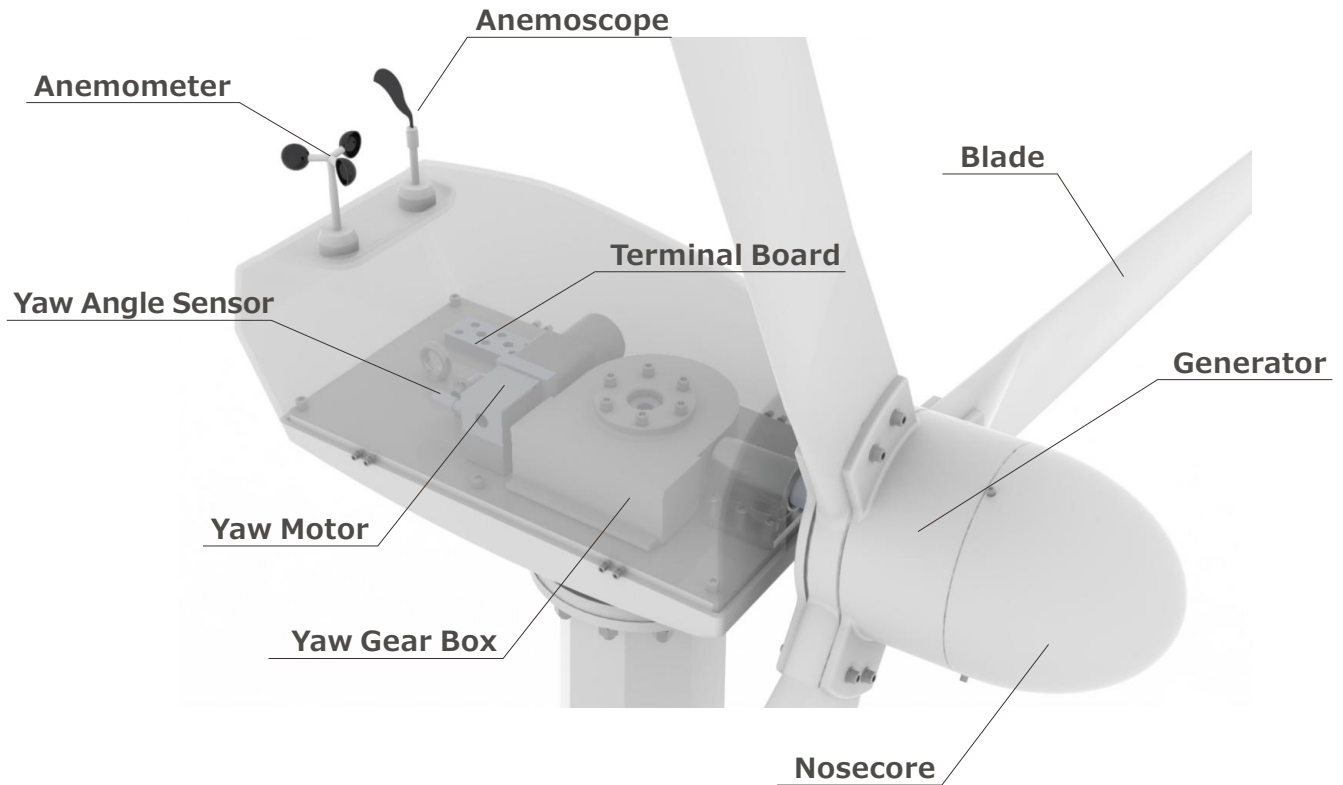
**5 YEAR WARRANTY**



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## WHY CHOOSE US ?

### Patent Generator

Aeolos outer rotor generator has the better cooling performance than the traditional generator. The working temperature range is from -35°C to 55 °C. The outer generator is in the front of the nacelle and always facing the wind. It could perfectly work in the cold or hot environment.

### High Efficiency

The efficiency of Aeolos generator is more than 96%. The electronic yaw control system keeps the more stable power output than the wind turbine with tail.

### Free Maintenance

Aeolos-H 3kW is a free maintenance design. Do not need to add lubricating oil in the design lifetime. We use Japan NSK bearings and free maintenance yaw gear boxes. Even some parts need to be replaced, the design makes it very easy to replace.

### Anti Corrosion Design

Aeolos has the special anti-sand coating on the blades, dome, nacelle, and tower. This will protect the blades and nacelle in the seaside or sand storm environment and ensure the wind turbine 20 years design lifetime.

### Battery charging Management

Aeolos Grid off controller & inverter has the good battery charging management function. This will help to improve the battery efficiency and increase the battery lifetime.

### Dual protection

Aeolos-H 3kW controller has the automatic yaw control system and also could stop the wind turbine manually. The dump load box will protect the turbine and controller in the overvoltage situation.



## Wire Diagram

