



***Aeolos-H 3KW  
Grid-on***



***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	300 VDC
Type	Three Phase Permanent magnetic generator
Generator efficiency	>0.96

## CONTROL & SAFETY SYSTEM

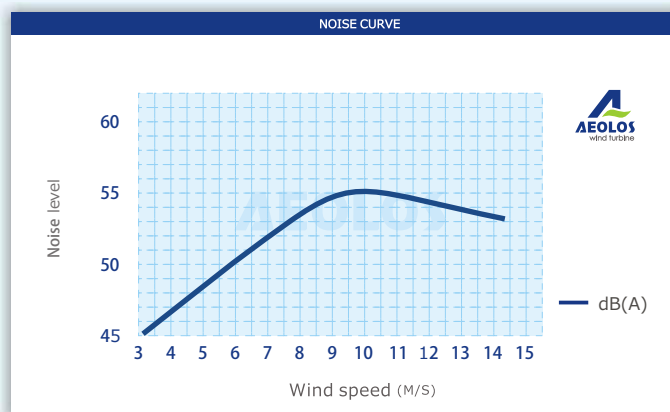
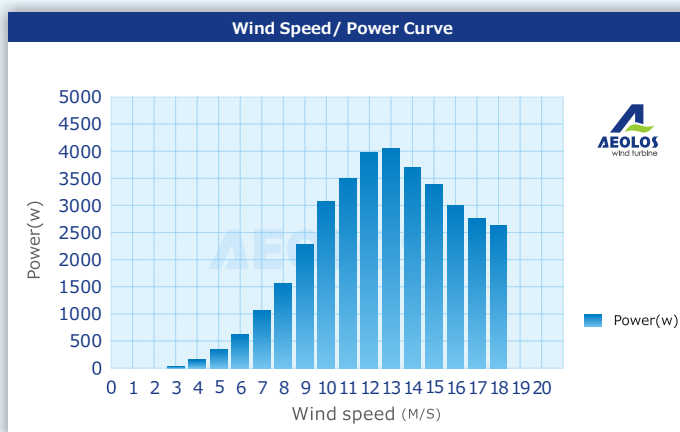
Main brake system	Yaw and Electronic brake system
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## TOWERS

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

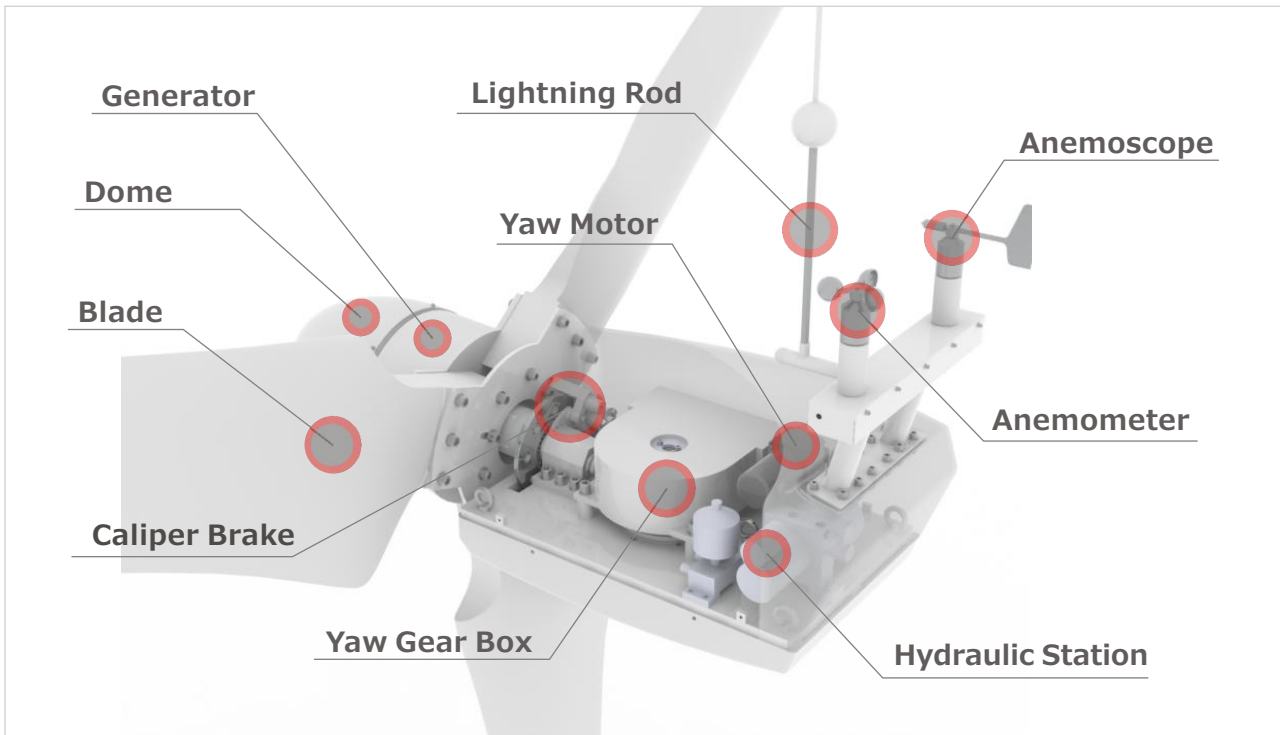
**5 YEAR WARRANTY**



**Aeolos Wind Energy,Ltd (UK)**

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





## 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.

### SMA and Power one Inverter

Aeolos-H 3kW rated voltage is 300V according to the voltage requirements of SMA and Aurora. The inverter efficiency is about 96%, much higher than the 500V wind generator with 93% inverter efficiency.

### 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

