



## ***Aeolos-H 5KW***



*Aeolos wind turbine  
SINCE 1986*



# Aeolos-H 5KW

windturbinestar.com



## TURBINE

Rated power 5 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 20 years  
 Overall weight 180 kg (396.8 lbs)

## ROTOR

Rotor diameter 6.4 m (21 ft)  
 Rotor speed 200 rpm  
 Blade material Glass fiber

## GENERATOR

Frequency 50 Hz or 60 Hz (System Output)  
 Voltage 216 VDC (Grid-off)  
 216 VDC (Grid-on)  
 Type Three Phase Permanent magnetic generator  
 Generator efficiency >0.96

## CONTROL & SAFETY SYSTEM

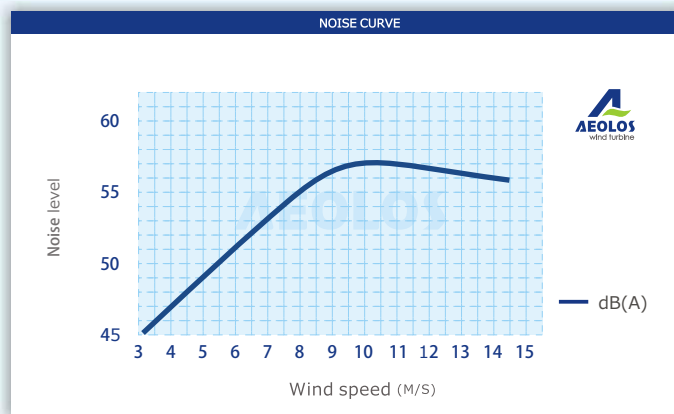
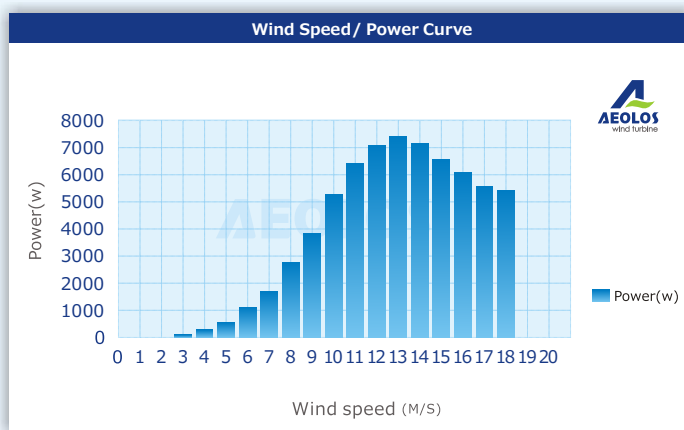
Main brake system Yaw and Electronic brake system  
 Secondary safety system (Optional) Hydraulic brake system

## TOWERS

Monopole tower 9m 12m 18m  
 Hydraulic tower 12m 18m

## WARRANTY

Standard warranty 5 years  
 extended warranty 10 years



| Wind Speed(m/s)           | 3    | 4    | 5    | 6     | 7     | 8     | 9     | 10    |
|---------------------------|------|------|------|-------|-------|-------|-------|-------|
| Generator Power(w)        | 120  | 290  | 605  | 1068  | 1765  | 2760  | 3820  | 5250  |
| Annual Energy Output(kWh) | 2102 | 4573 | 9010 | 14969 | 23192 | 33849 | 43502 | 55188 |

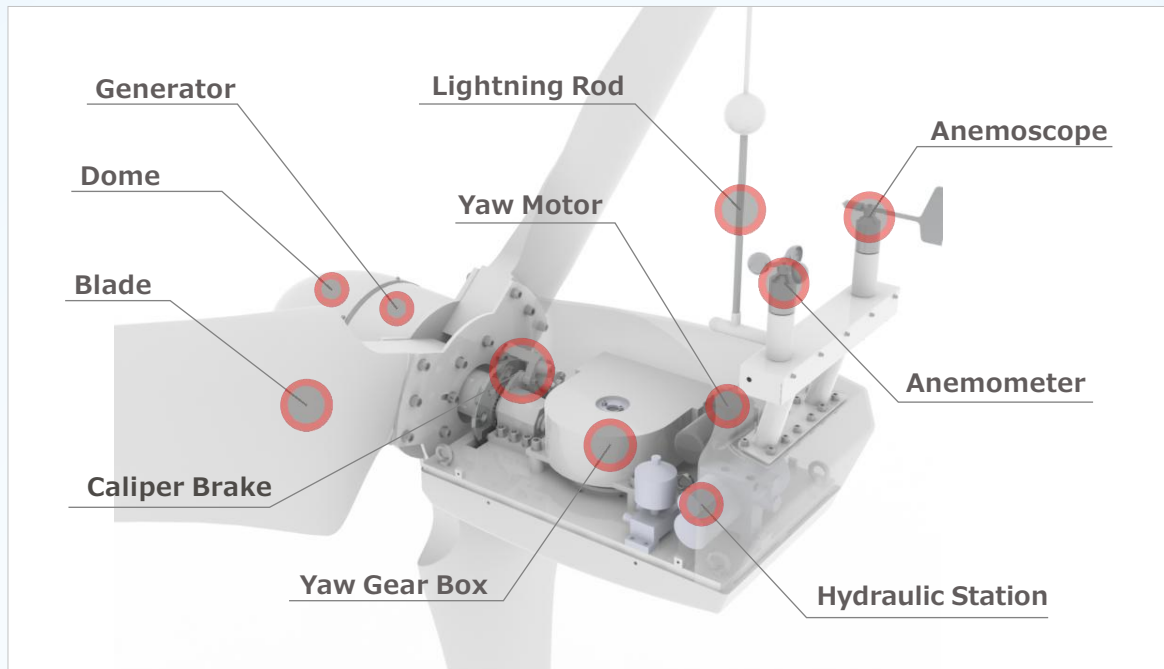
**5 YEAR WARRANTY**



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## WHY CHOOSE US ?

### High Efficiency

AEOLOS outer rotor generator has the better performance than the traditional generator with the 96% efficiency. The intelligent yaw control system ensure the more power output than the wind turbine with tail.



### Free Maintenance

AEOLOS - H 5kW is the free maintenance design. Do not need the lubricant oil in the design life. We use NSK bearings and free maintenance yaw gear box.



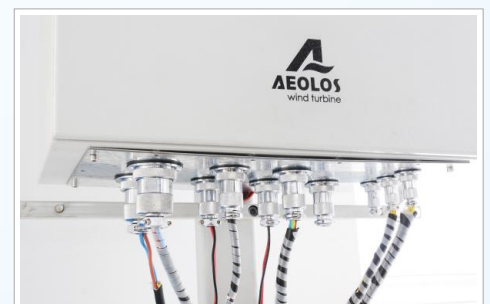
### Intelligence Control

AEOLOS use PLC control the whole system. You can remotely control the wind turbine by touch screen in your home.



### Triple Protection

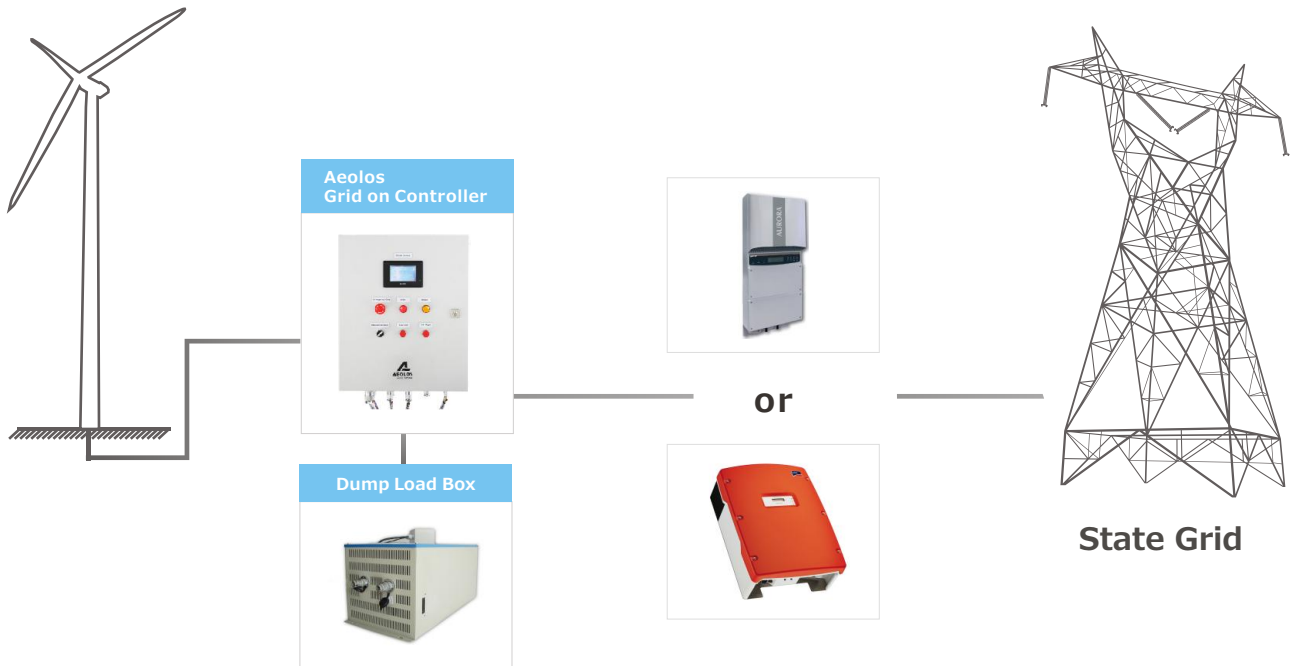
AEOLOS-H 5kW has triple protection for the safety. Yaw control, Dump load box and Hydraulic brake. They can protect or stop the wind turbine in over speed, over voltage and other faults.





## Wire Diagram

### Grid-on



### Grid-off

