



PITCH CONTROL WIND TURBINE

Model:AH-5KW

Applicable scenarios



Village power



Island Power



Base station power



Border posts



Landscape Lighting



Monitoring Lighting

Advantages

30% More energy output

3-5 years Return on Investment

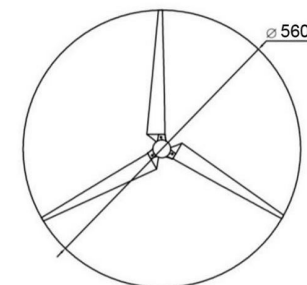
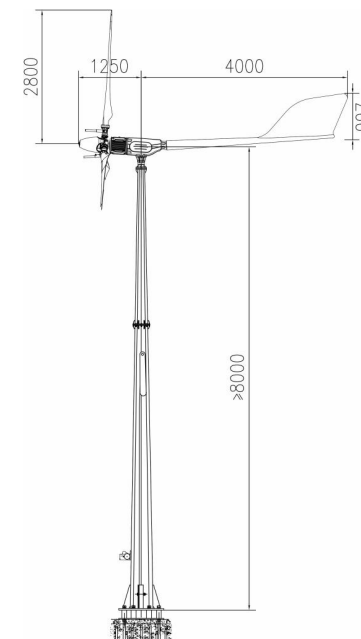
30m/s Max working wind speed

60m/s Safety wind speed

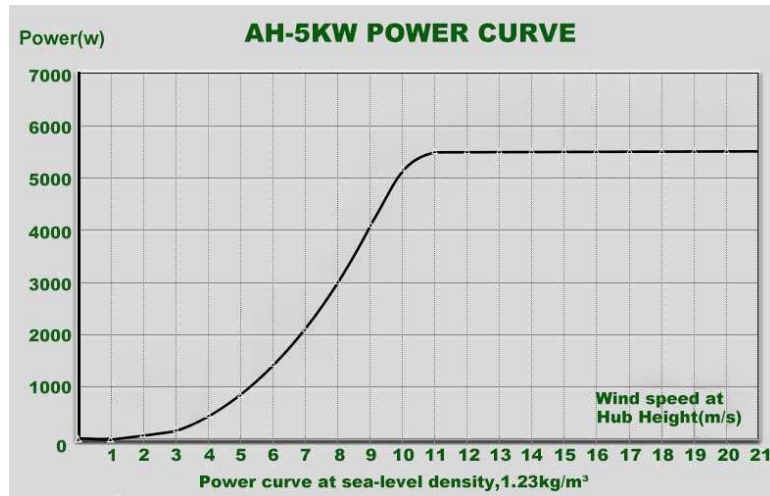
UL Intertek IEC61400-2/IEC61400-12
Verified wind farm test report

Technical specification

Model	AH-5KW
Performance	
Rated Power	5KW
Max Power	6KW
Start Wind Speed	2.5m/s(5.59mph)
Rated Wind Speed	10m/s(22.37mph)
Working Wind Speed	3-30m/s(6.71-67.2 mph)
Safety Wind Speed	60m/s(133.8mph)
Physical Parameters	
Blades Length	2.5M(8.2ft)
Blades Rotor Diameter	5.6M(18.37ft)
Blades Material &Quantity	FRP /3PCS
Mill Weight	400kg
Swept Area	24 m²
Tower Height	≥8m, Hot dip galvanized
Generator Parameters	
Rated Speed	240 RPM
Rated Working voltage	DC400V/DC240V
Start Torque	<0.3N.M
Generator Type	Three-phase permanent AC magnet generator
Wind Answering Method	Up wind+yawing
Stop Method	Pitch brake + active yaw
Speed Mode	Pitch + active yaw + electromagnetic brake
Protection Grade	IP54
Working Temperature	-20--+50℃



Power Curve



Annual Energy Production

Annual Wind Speed (m/s)	3.5	4	4.5	5	5.5	6	6.5	7
Production (kWh)	2481	3744	5168	7298	8277	12120	13785	16980

This data will have $\pm 10\%$ difference according to local condition.

Sound Data

Test position: At 15m away from generator (average value of 3 point-rears, left, right)

Wind Speed (m/s)	3	4	5	6	7	8	9	10	11
Sound (dB)	1.35	3.08	6.22	9.45	13.44	22.09	32.55	36.45	37.22
Wind Speed (m/s)	12	13	14	15	16	17	18	19	20
Sound (dB)	45.33	45.22	45.33	45.43	45.54	45.66	45.76	45.85	46.00

Note: The sound value includes wind noise.

Why choose AH-5KW Wind turbine?

Using the world's leading mechanical centrifugal variable pitch technology, the average annual power generation is 30% more.

★Excellent

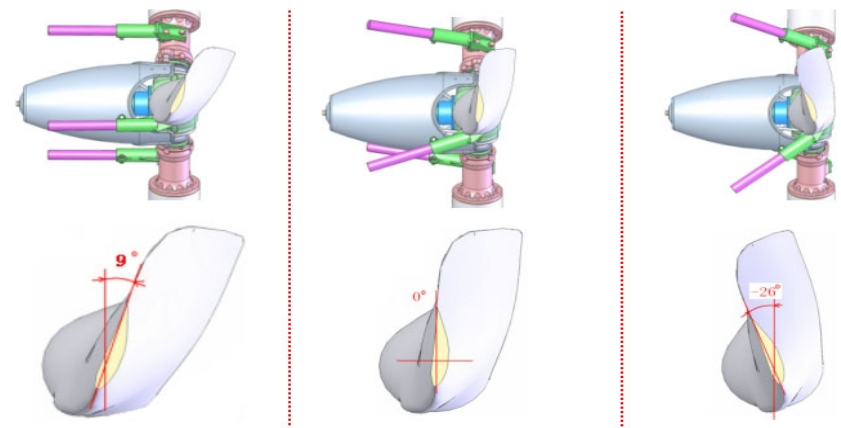
Large initial blade angle ($+9^\circ$), excellent acceleration performance, start at low wind speed of 2.5m/s;

★Efficiently

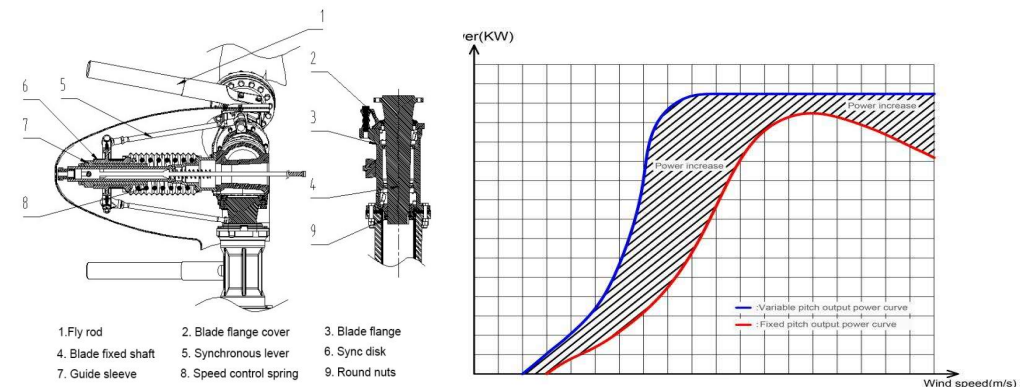
Below the rated wind speed, the wind turbine outputs efficiently;

★Stable

Above the rated wind speed, adjust the pitch angle so that the rotor speed is maintained near the rated speed and the power output is stable.







The use of variable pitch technology has greatly improved the efficiency of wind turbine power generation. The graph of increased power is shown below:



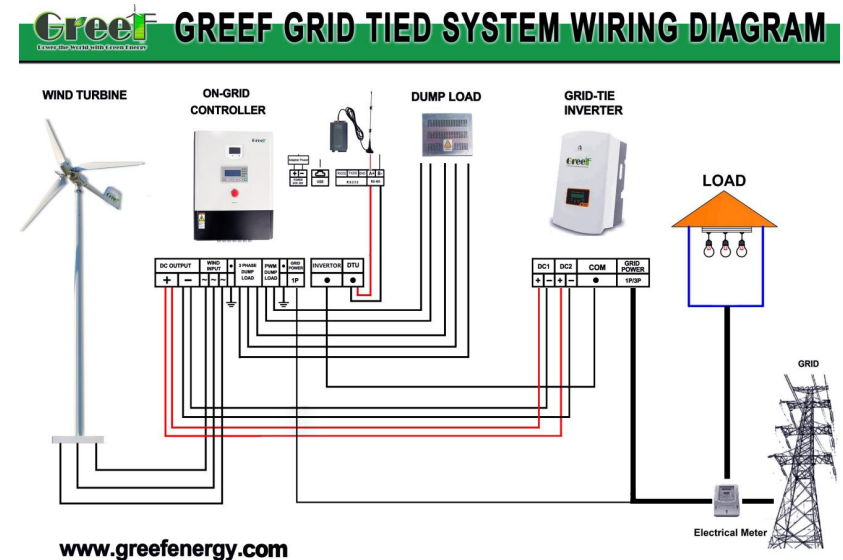
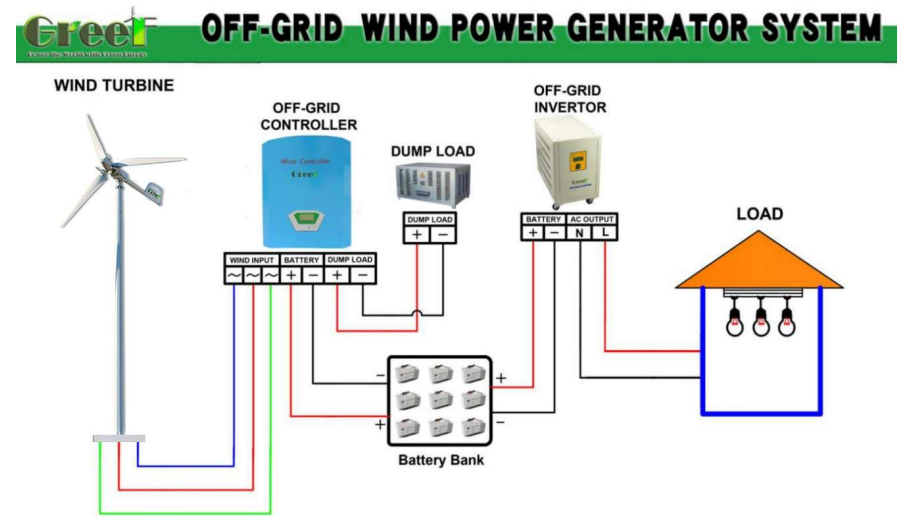
AH-5KW wind turbine?

Power Curve Tracking Function

- For off-grid system –Marching MPPT Charge controller
- For on-grid system –Marching MPPT Wind Invertor
- Wind turbine MPPT track point adjustable by yourself.
- Off-grid system wind turbine low cut in wind speed charge.
- Complete protection function.
- Several functions are optional, such as PV control function, wind speed measure function, rotational speed control function and temperature compensation function.
- RS232/RS485/RJ45/GPRS/WIFI/Bluetooth/Zigbee optional. (It can be monitored by app for those with GPRS/WIFI/Bluetooth/RJ45 connection).

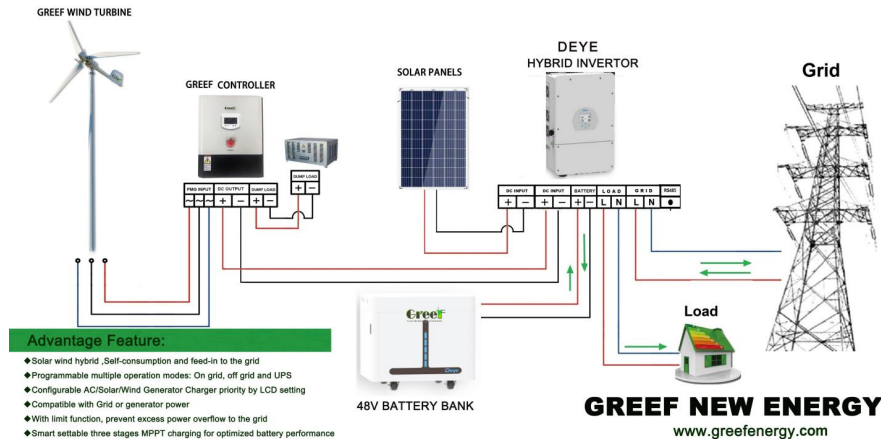
	
<p>MPPT Charge Controller with dump load(off-grid)</p>	<p>Pure sine wave Invertor (off-grid)</p>
	
<p>On-grid Controller (On-grid)</p>	<p>On-grid Invertor (On-grid)</p>

System Solution





HYBRID SYSTEM SOLUTION



Wind turbine installation process and engineering display



Institutional test report & certification



Why Choose GREEF ?

- ★Bureau ,SGS,TUV, Intertek verified Gold Plus Supplier
- ★Top 3 suppliers of generators products with all 5 star feedback on alibaba.com
- ★13 years'experience engineer&QC team
- ★7days*24hours on time service.
- ★3 years guarantee service, focus on after-sale service
- ★One stop customized system solution
- ★Trade experience with more than 60 countries
- ★CE ,RoHS certificated
- ★OEM,ODEM are accepted
- ★Support safe payment through Alibaba trade assurance ,
- ★Products quality and on time delivery are guaranteed by alibaba.com

