

Horizontal Wind Turbine Catalogue

Model: GH-3KW Horizontal axis wind turbine On-grid | Off-grid system

Overview

GREEF GH-3KW wind generator is the conversion of wind energy into mechanical energy first and electric energy afterwards. This equipment can fully make use of wind power to recharge a battery, and also can saved energy into ac source alternating current. Without the necessity of fuel, the GH-3KW wind generator is pollution free and far away from noise. The GH-3KW wind generator is generally applicable to the area which has good condition but is far away from the power grid, or the power grid is not normal. The GH-3KW generator can supply lighting, the television set, the searchlight, the communication equipment, the power tool and other household appliances.



Recommended for:

- Household, Garden, farm, Urban, Rooftop
- Telecommute sites.
- Rural electrification programs. Island, sentry, island, sight lighting





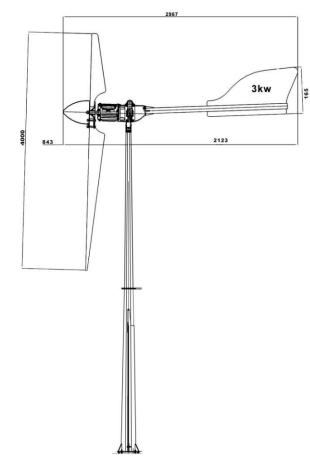






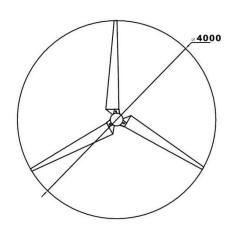
Technical specification

Model	GH-3KW				
Performance					
Rated Power	3000W				
Start Wind Speed	3m/s(6.72mph)				
Rated Wind Speed	10m/s(22.4mph)				
Working Wind Speed	4-25m/s (8.96-56 mph)				
Safety Wind Speed	50m/s(112mph)				
Physical Parameters					
Blades Length	1.9M(6.23ft)				
Blades Rotor Diameter	4M(13.12ft)				
Blades Material &Quantity	FRP /3PCS				
Top Weight	150kg				
Swept Area	8.04 m²				
Tower Height	8m(26.24ft.) Free folding tower				



Generator Parameters

Generator Type	Permanent Magnet Generator
Rated Speed	350RPM
Start Torque	2.5N.M
Option Voltage	48-240VAC
Protection Method	Electromagnetic Brake +PWM
Protection Grade	IP54
Working Temperature	-40-50 ℃
Life time	20 Years



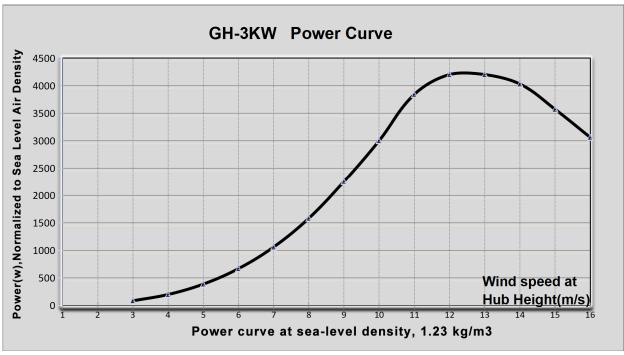




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Power Curve



Annual Energy Production

Model	Annual Wind Speed (m/s)	3	4	5	6	7
GH-3KW	Production (kWH)	658	1559	3045	5262	8355

This data will have $\pm 10\%$ difference according to real 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)	19.2	21.5	26.8	29.3	31.3	34.9	39.9	40.9	44.9
Wind Speed (m/s)	12	13	14	15	16	17	18	19	20
Sound(dB)	45.9	47.8	50.8	53.9	57.6	59.5	62.9	66.2	68.2

Note: The sound value includes wind noise.



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Accesses Details Pictures



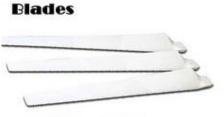




Long lifetime Good performance in high termperature



NdFeB permanent Magnet



FRP longlife time



FRP longlife time

















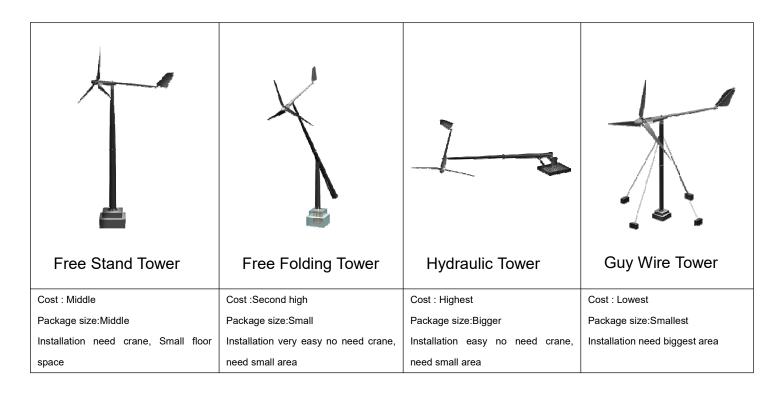




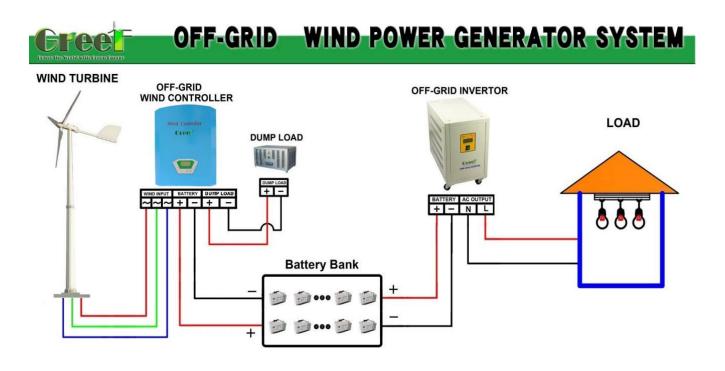




Optional Tower Type



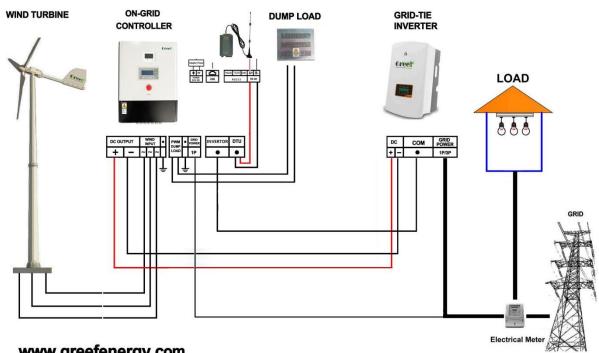
System solution Diagram







GREEF GRID TIED SYSTEM WIRING DIAGRAM



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HYBRID SYSTEM SOLUTION

