

# Horizontal Wind Turbine Catalogue

Model: GH-2KW Horizontal axis wind turbine On-grid | Off-grid system

#### Overview

GREEF GH-2KW 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-2KW wind generator is pollution free and far away from noise. The GH-2KW 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-2KW 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





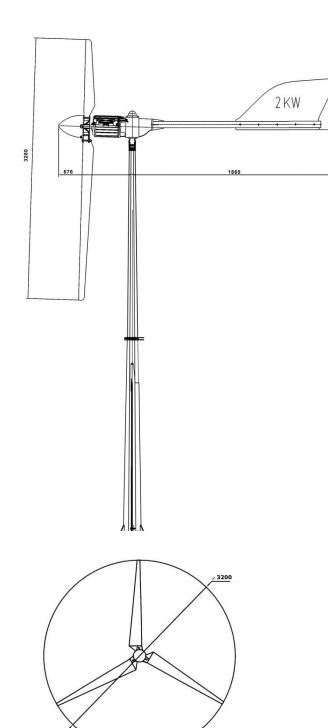


# **Technical specification**

Model	GH-2KW					
Performance						
Rated Power	2000W					
Start Wind Speed	3m/s(6.72mph)					
Rated Wind Speed	10m/s(22.4mph)					
Working Wind Speed	3-25m/s(6.72-56 mph)					
Safety Wind Speed	40m/s(89.6mph)					
Physical Parameters						
Blades Length	1.6M(5.25ft)					
Blades Rotor Diameter	3.2M(10.50ft)					
Blades Material &Quantity	FRP /3PCS					
Top Weight	68kg					
Swept Area	8.04 m²					
Tower Height	6m(19.68ft.) Free Folding Tower					

#### **Generator Parameters**

Generator Type	Permanent Magnet Generator				
Rated Speed	400RPM				
Start Torque	0.8N.M				
Option Voltage	24-350VAC				
Protection Method	Electromagnetic Brake +PWM				
Protection Grade	IP54				
Working Temperature	-40-50℃				
Life time	20 Years				



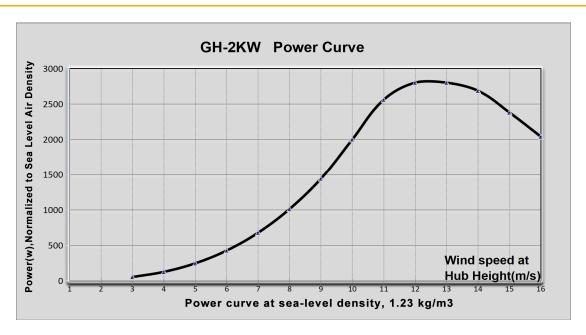








#### **Power Curve**



## **Annual Energy Production**

Model	Annual Wind Speed (m/s)	3	4	5	6	7
GH-2KW	Production (kWH)	421	998	1949	3367	5347

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

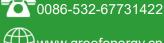
#### **Sound Data**

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)	18.6	20.5	25.9	27.9	30.5	33.5	38.2	39.6	43.6
Wind Speed (m/s)	12	13	14	15	16	17	18	19	20
Sound(dB)	44.8	46.3	49.6	52.3	55.4	57.6	61.2	64.3	66.5

Note: The sound value includes wind noise.









### **Pictures**











### **Accesses Details Pictures**





Magnetic steel

Long lifetime Good performance in high termperature Light & antirust

NdFeB permanent Magnet



FRP longlife time

**Nose Cone** 







Electrostatic spraying



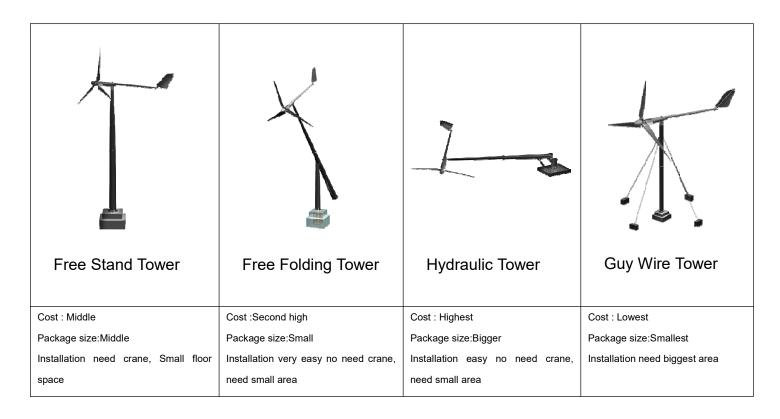




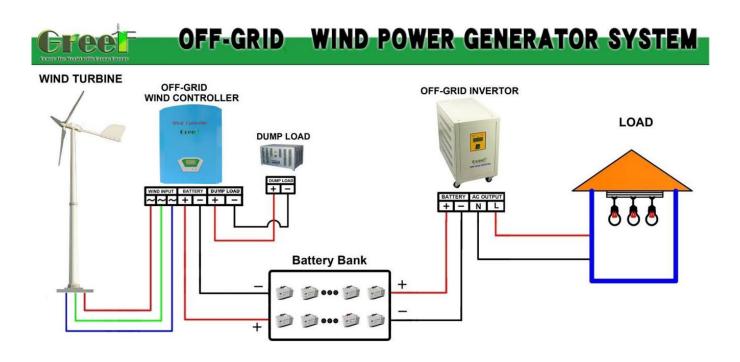
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## **Optional Tower Type**



# System solution Diagram

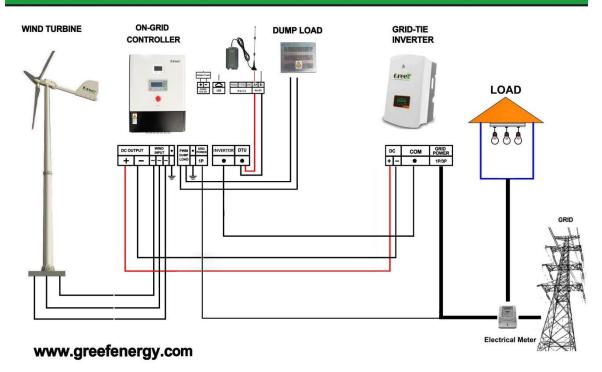








# GREEF GRID TIED SYSTEM WIRING DIAGRAM



#### HYBRID SYSTEM SOLUTION

