

# Horizontal Wind Turbine Catalogue

Model: 1KW      Horizontal axis wind turbine      On-grid | Off-grid system

## Overview

GREEF GH-1KW 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-1KW wind generator is pollution free and far away from noise. The GH-1KW 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-1KW 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
- Telecom sites.
- Rural electrification programs. Island , sentry, island, sight lighting
- Automatic speed reduction protection

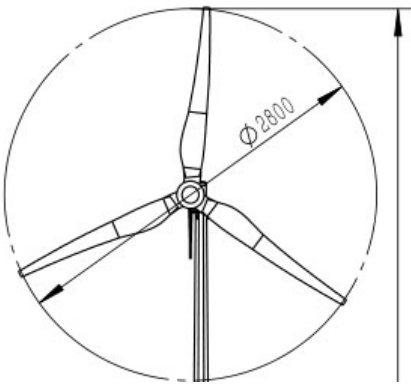
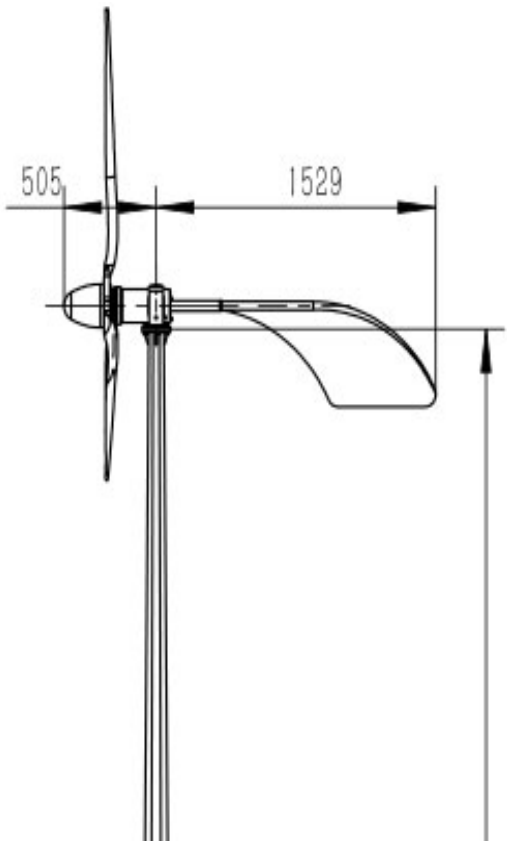
# Technical specification

Model	GH-1KW
<b>Performance</b>	
Rated Power	1000W
Start Wind Speed	3m/s(6.72mph)
Rated Wind Speed	9m/s(20.1mph)
Working Wind Speed	4-25m/s(8.96-56 mph)
Safety Wind Speed	50m/s(112mph)

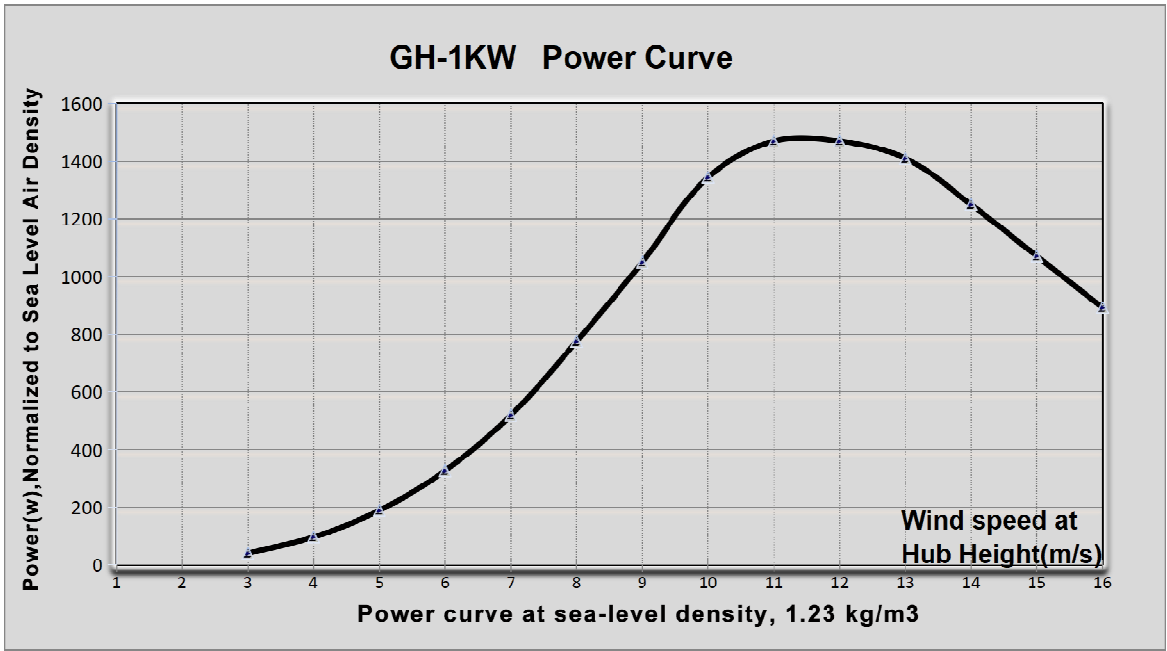
<b>Physical Parameters</b>	
Blades Rotor Diameter	2.8M(9.2ft)
Blades Material &Quantity	FRP /3PCS
Top Weight	46kg
Tower Height	6m(19.68ft.) Free Stand Tower

## Generator Parameters

Generator Type	Permanent Magnet Generator
Rated Speed	360RPM
Option Voltage	24-220VAC
Protection Method	Automatic YawingProtectionElectromagnetic Brake +PWM
Protection Grade	IP54
Working Temperature	-40-50°C



# Power Curve

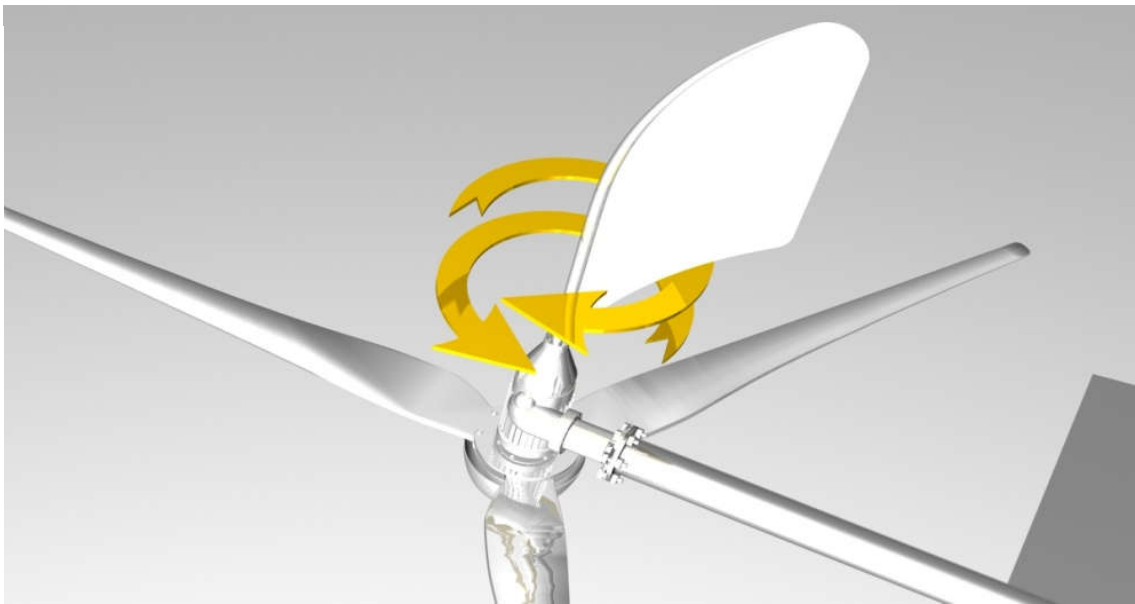


# Annual Energy Production

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

Model	Annual Wind Speed (m/s)	3	4	5	6	7
GH-1KW	Production (kWh)	322	764	1492	2578	4094

# Automatic Speed Reduction Protection









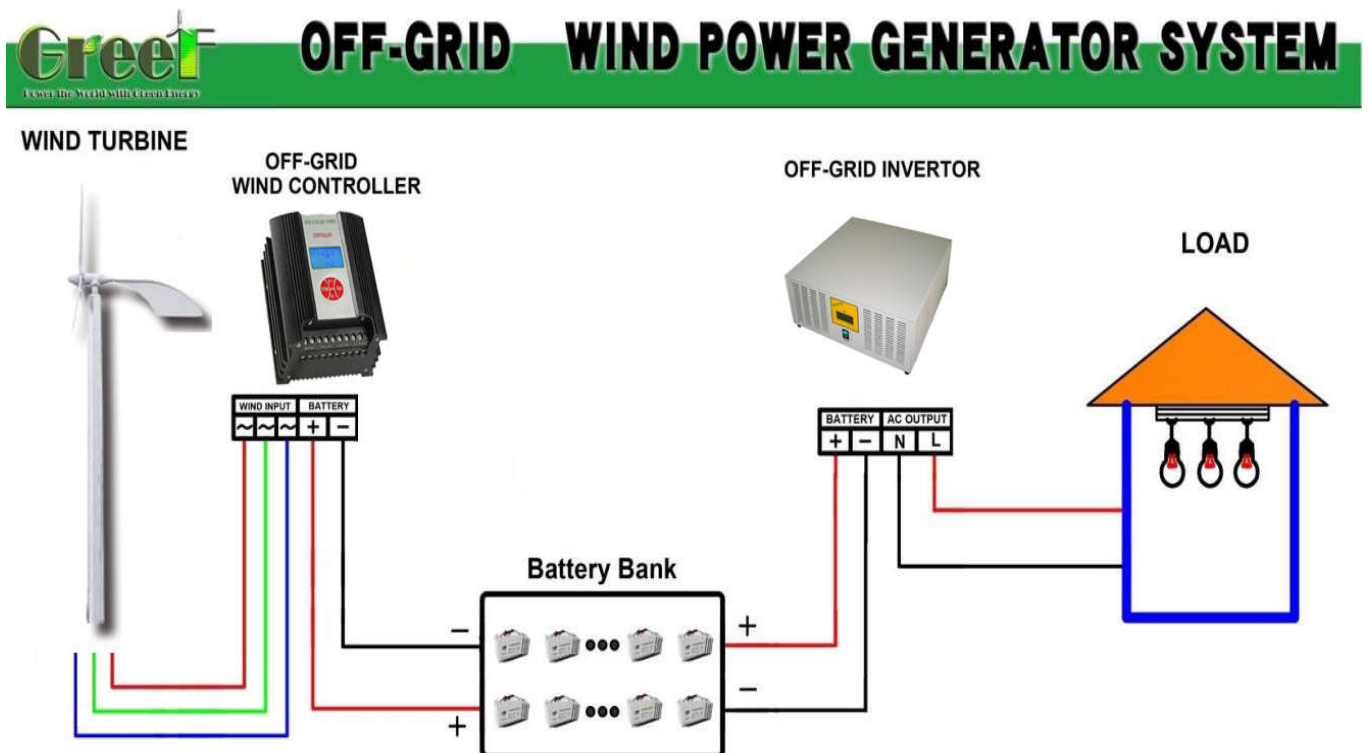
## Pictures



## Optional Tower Type

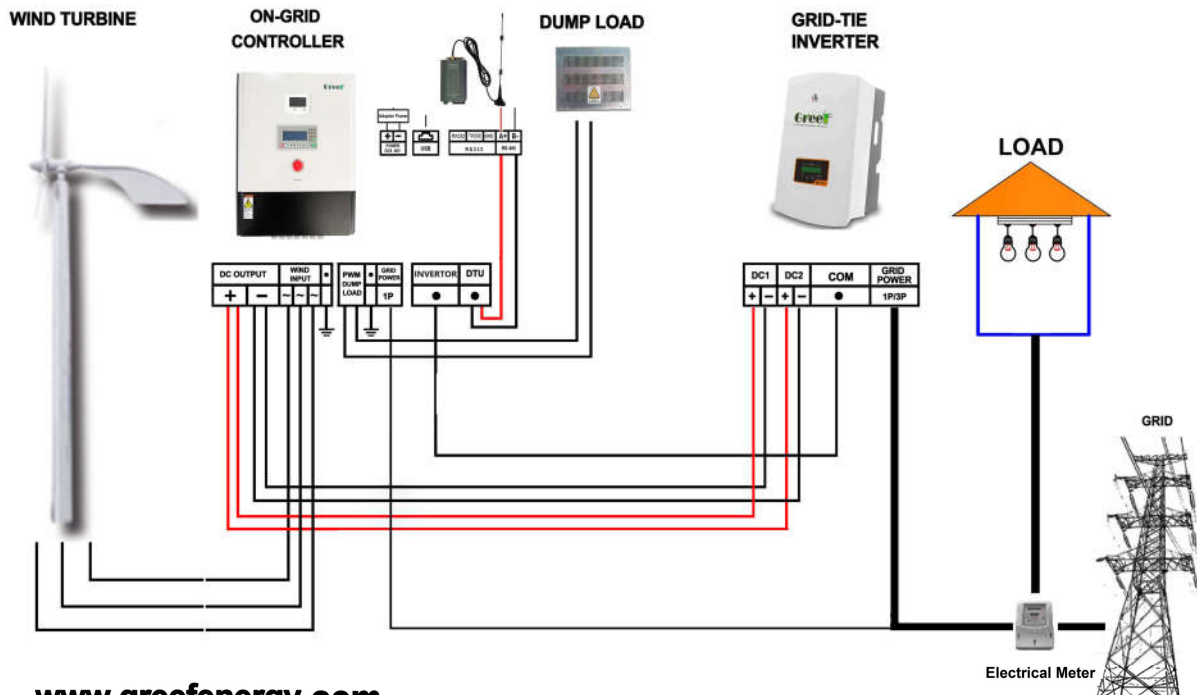
 <p>Free Stand Tower</p>	 <p>Free Folding Tower</p>	 <p>Hydraulic Tower</p>	 <p>Guy Wire Tower</p>
<p>Cost : Middle Package size:Middle Installation need crane, Small floor space</p>	<p>Cost :Second high Package size:Small Installation very easy no need crane, need small area</p>	<p>Cost : Highest Package size:Bigger Installation easy no need crane, need small area</p>	<p>Cost : Lowest Package size:Smallest Installation need biggest area</p>

## System Solution Diagram





## GREEF GRID TIED SYSTEM WIRING DIAGRAM

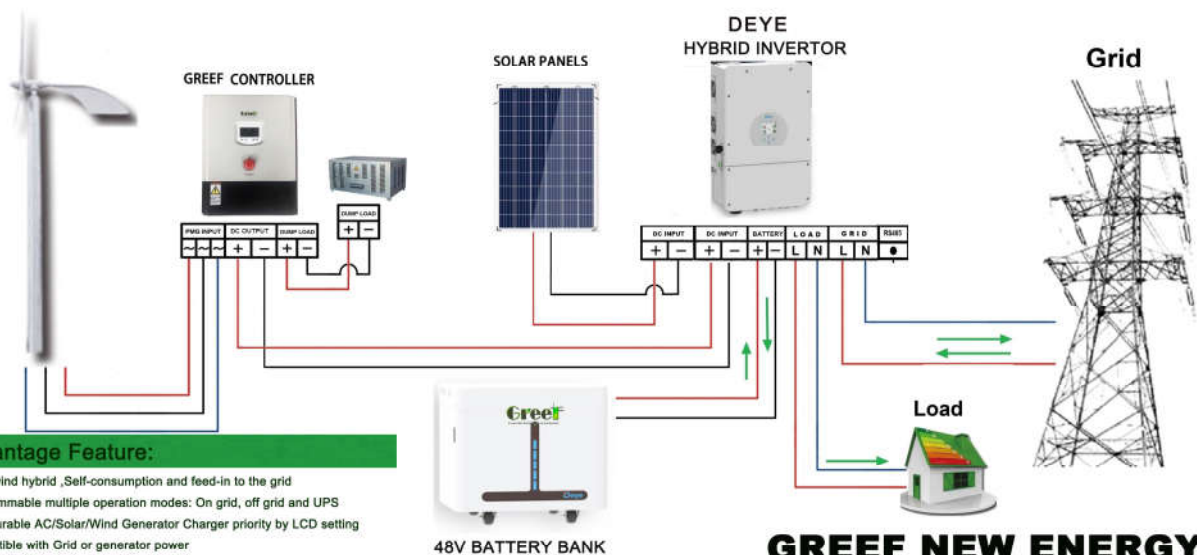


[www.greefenergy.com](http://www.greefenergy.com)



## HYBRID SYSTEM SOLUTION

GREEF WIND TURBINE



### Advantage Feature:

- ◆ Solar wind hybrid ,Self-consumption and feed-in to the grid
- ◆ Programmable multiple operation modes: On grid, off grid and UPS
- ◆ Configurable AC/Solar/Wind Generator Charger priority by LCD setting
- ◆ Compatible with Grid or generator power
- ◆ With limit function, prevent excess power overflow to the grid
- ◆ Smart settable three stages MPPT charging for optimized battery performance
- ◆ Time of use & Smart Load function

**GREEF NEW ENERGY**

[www.greefenergy.com](http://www.greefenergy.com)



## 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

**Verified Supplier**

★Support safe payment through Alibaba trade assurance ,

★Products quality and on time delivery are guaranteed by alibaba.com



**Mr Victor Chen**

**Sales Manager**

Mob:+86-19861465398

E-mail:info@greefenergy.com

**QINGDAO GREEF NEW ENERGY EQUIPMENT CO.,LTD**

Add:No.6 ChangchengnanRoad,Chengyang,Qingdao,China

Tel:0086-532-67731422-802 FAX:0086-532-67731422-808