

Horizontal Wind Turbine Catalogue

Model: GH-20KW Horizontal axis wind turbine On-grid | Off-grid system

Overview

GREEF GH-20KW 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 save energy into ac source alternating current. Without the necessity of fuel, the GH-20KW wind generator is pollution free and far away from noise. The GH-20KW 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-20KW 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

Technical specification

Model	GH-20KW
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Performance

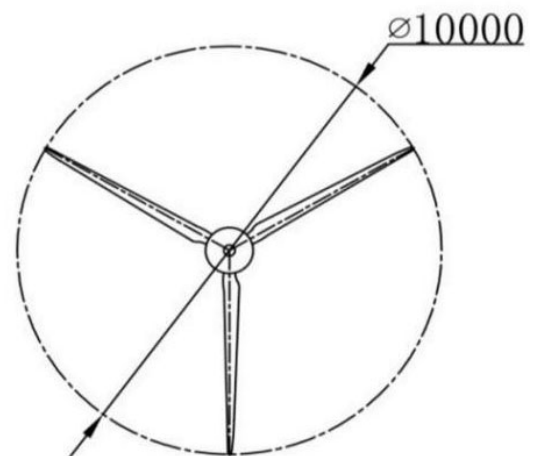
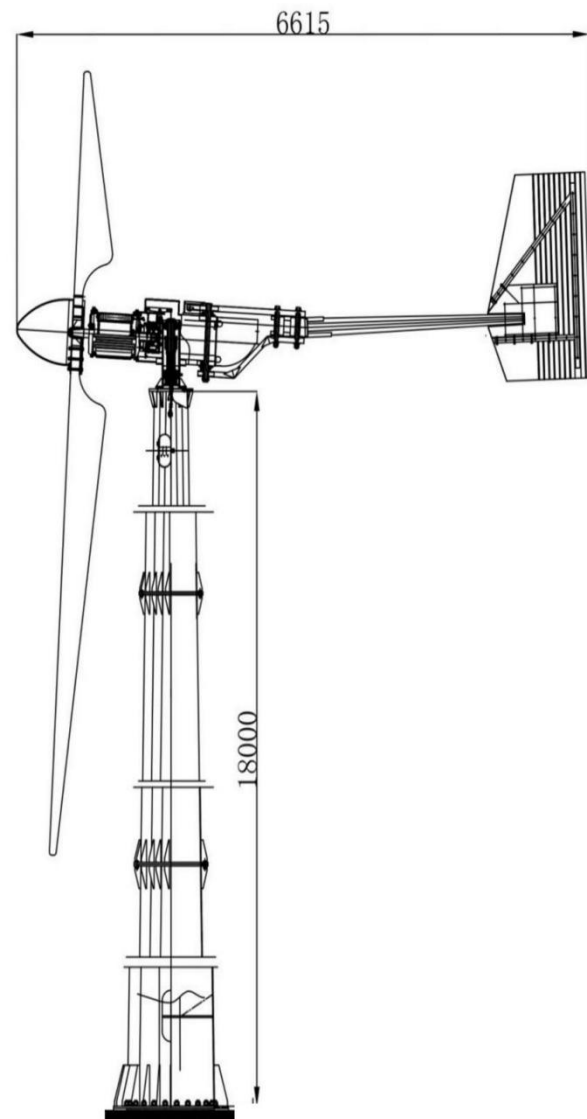
Rated Power	20000W
Start Wind Speed	3m/s(6.72mph)
Rated Wind Speed	10m/s(22.4mph)
Working Wind Speed	4-25m/s (8.96-56 mph)
Safety Wind Speed	50m/s(112mph)

Physical Parameters

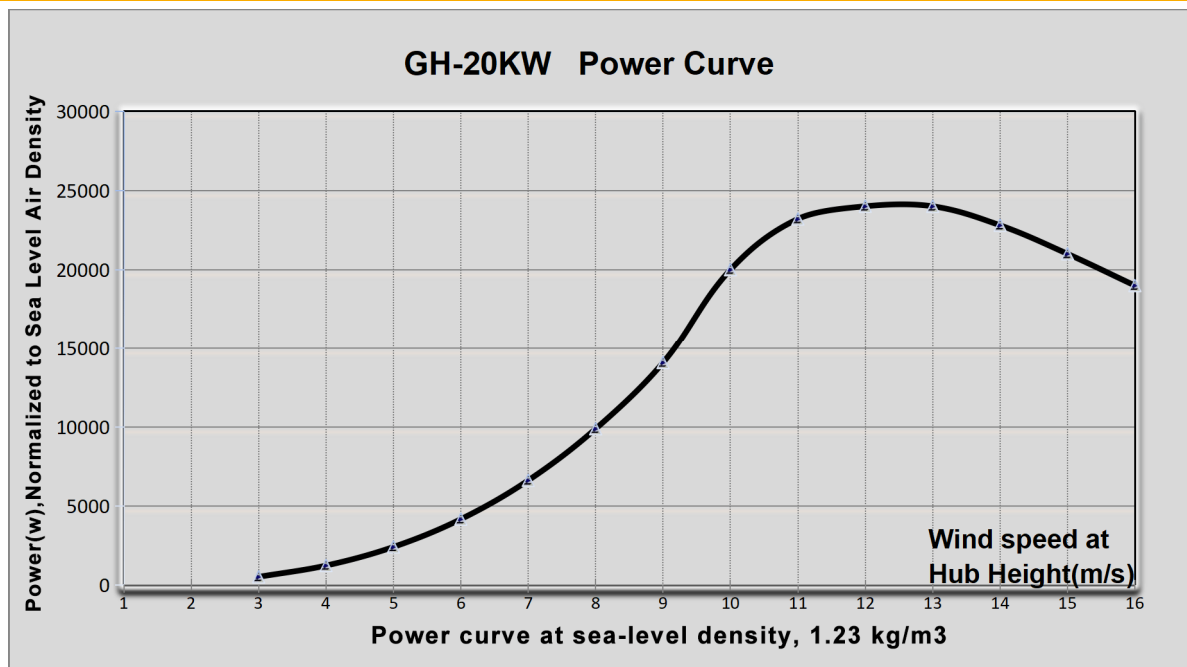
Blades Length	4.795M(15.73ft)
Blades Rotor Diameter	10M(32.8ft)
Blades Material &Quantity	FRP /3PCS
Top Weight	1200kg
Swept Area	63.59 m ²
Tower Height	18m(59.04ft.) Free stand tower

Generator Parameters

Generator Type	Permanent Magnet Generator
Rated Speed	180RPM
Start Torque	10N.M
Option Voltage	240-500VAC
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-20KW	Production (kWH)	4111	9744	19031	32886	52221

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)	23.8	26.9	34.7	35.5	37.2	39.8	44.6	46.5	50.9
Wind Speed (m/s)	12	13	14	15	16	17	18	19	20
Sound(dB)	52.6	54.8	58.7	60.8	62.5	67.8	68.9	70.1	72.1

Note: The sound value includes wind noise.



Pictures



Accesses Details Pictures

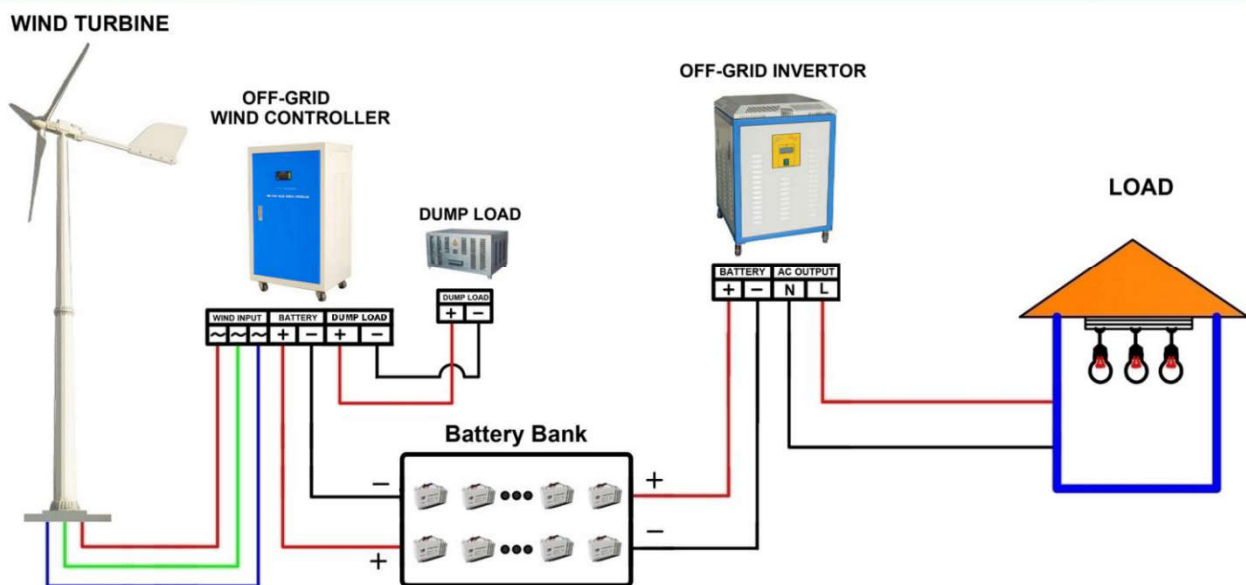


Optional Tower Type

 <p>Free Stand Tower</p>	 <p>Hydraulic Tower</p>
<p>Cost : Middle</p> <p>Package size:Middle</p> <p>Installation need crane, Small floor space</p>	<p>Cost : Highest</p> <p>Package size:Bigger</p> <p>Installation easy no need crane, need small area</p>

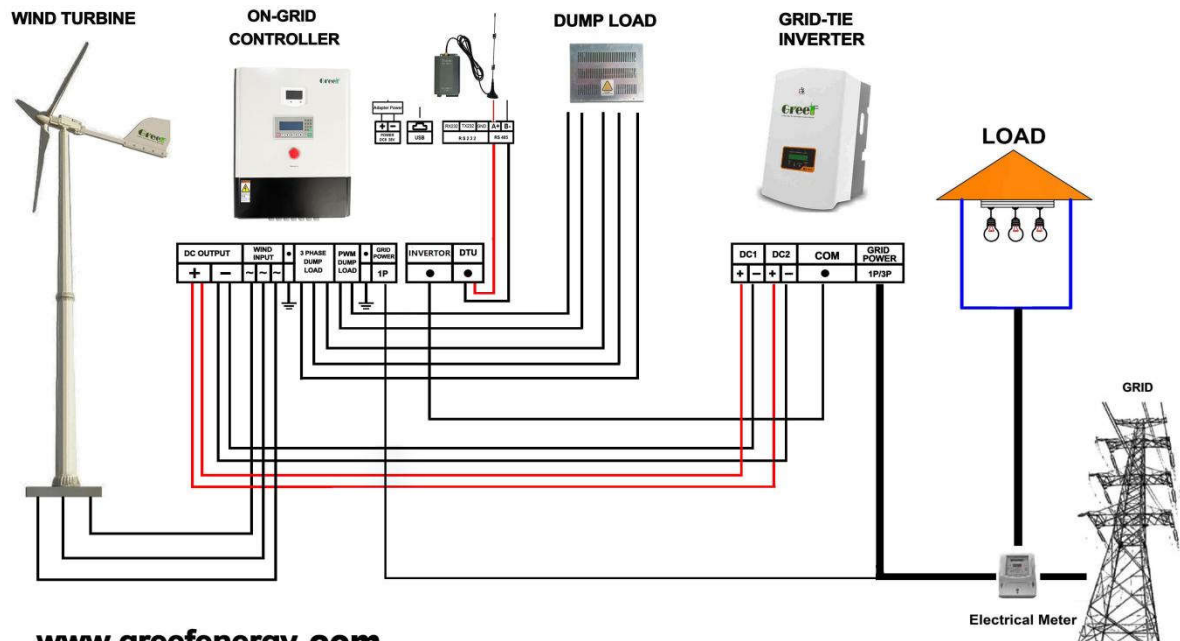
System solution Diagram

Greef OFF-GRID WIND POWER GENERATOR SYSTEM





GREEF GRID TIED SYSTEM WIRING DIAGRAM

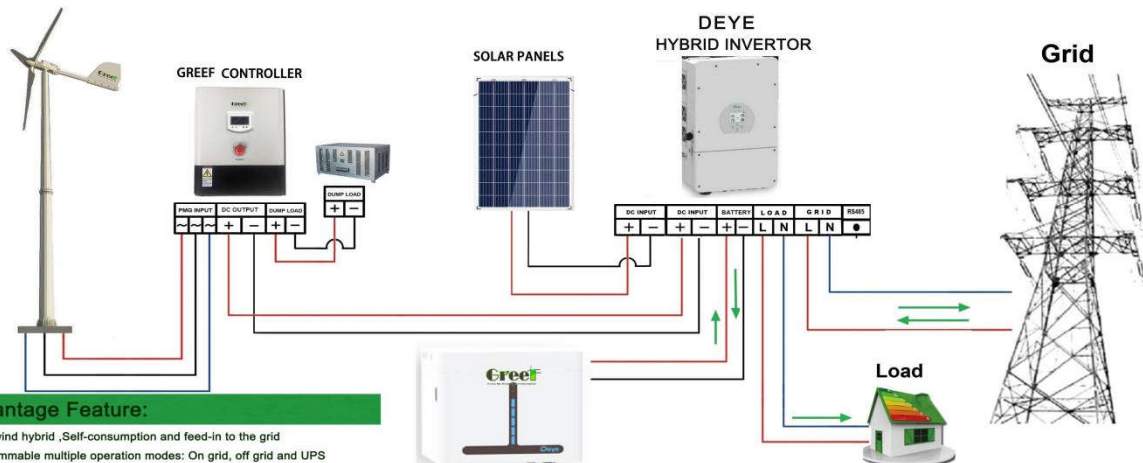


www.greefenergy.com



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

48V BATTERY BANK

GREEF NEW ENERGY

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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



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