



PRODUCT BROCHURES

- SOLAR WIND HYBRID SYSTEM
- PITCH CONTROL WIND TURBINE
- HORIZONTAL AXIS WIND TURBINE
- VERTICAL AXIS WIND TURBINE

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SHANDONG GREEF NEW ENERGY TECHNOLOGY CO., LTD. QINGDAO GREEF NEW ENERGY EQUIPMENT CO., LTD.



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Company Introduction

GREEF NEW ENERGY is global supplier which focus on Wind, Solar and Hydro generation system solution .

We provide customized system solution which suitable for off-grid , grid-tied and hybrid system for renewable energy system. GREEF own our own factory manufacture permanent magnet generator from 300W to 5MW. Wind turbine Blades until 200kw, grid-tied wind turbine controllers until 2MW and own patent control system for controllers .

Our solar&wind turbines are installed all over the world. 50% staff in our engineer team have 12–20 years' experience in the field, we can help clients to customize overall system solution with strong flexibility and competitive capabilities, our service that can be delivered include but are not limited to: overall design plan, principle drawing, 3D renderings, sample physical, bulk product delivery, quality control, and after-sales service. With a fast service system, we can assist our customers to save cost and time.

GREEF Products have been export to all over the world, like Europe, South America, North America and other countries. All products have CE approvals with 3 to 5 years warranty, the quality and on-time delivery are guaranteed by Alibaba.

Since the start of the company, we have been passionate believers in our mission to provide cheaper, reliable electricity through the power of renewable energy. Your support and belief in what Greef lives for, starting with our motto "Power the world with green energy", has allowed us to rapidly innovate and become a responsible supplier in distributed renewable energy.



Why Choose Us



Bureau, SGS,
TUV Verified Supplier



Top 3 suppliers of generators
products with all 5-star
on Alibaba.com



Products quality
and on time delivery are
guaranteed by Alibaba.com



11 years' experience
engineer & QC team



Focus on after-sales service



One-stop customized
system solution



Trade experience
with more than 60 countries



CE, RoHS certificated



OEM,ODM are accepted



Pitch Control Wind Turbine Series



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AH Products Introduction



- Leading technology—intelligent control, strong system scalability.
- High security—continuous operation around the clock to achieve unattended operation.
- A lot of power generation—variable pitch control, high-efficiency output, power generation up to 30%.

MODEL: AH-5KW

HOT!



Model	AH-5KW	Swept Area	24m ²
Rated Power	5KW	Tower Height	≥8, Hot Dip Galvanized
Max Power	6KW	Generator Paramaters	
Start Wind Speed	2.5M/S(5.59MPH)	Rated Speed	240RPM
Rated Wind Speed	10M/S(22.37MPH)	Rated Working Voltage	DC400V/DC240V
Working Wind Speed	3-30M/S(6.71-67.2MPH)	Start Torque	<0.3N.M
Safety Wind Speed	60M/S(133.8MPH)	Generator Type	Three-phase Permanent AC Magnet Generator
Physical Parameters		Wind Answering Method	Up Wind+yawing
Blades Length	2.5M(8.2FT)	Stop Method	Pitch Brake+Active Yaw
Blades Rotor Diameter	5.6M(18.37FT)	Speed Mode	Pitch+Active Yaw+Electromagnetic Brake
Blades Material&quantity	FRP/3PCS	Protection Grade	IP54
Mill Weight	400KG	Working Temperature	-20- +50℃

MODEL: AH-10KW



Model	AH-10KW	Swept Area	47.5m ²
Performance		Tower Height	≥12, Hot Dip Galvanized
Rated Power	10KW	Generator Paramaters	
Max Power	12KW	Rated Speed	180RPM
Start Wind Speed	2.5M/S(5.59MPH)	Rated Working Voltage	DC400V
Rated Wind Speed	10M/S(22.37MPH)	Start Torque	<0.3N.M
Working Wind Speed	3-30M/S(6.71-67.2MPH)	Generator Type	Three-phase Permanent AC Magnet Generator
Safety Wind Speed	60M/S(133.8MPH)	Wind Answering Method	Up Wind+yawing
Physical Parameters		Stop Method	Pitch Brake+Active Yaw
Blades Length	3.6M(11.8FT)	Speed Mode	Pitch+Active Yaw+Electromagnetic Brake
Blades Rotor Diameter	7.78M(25.2FT)	Protection Grade	IP54
Blades Material&quantity	FRP/3PCS	Working Temperature	-20- +50℃
Mill Weight	550KG	Life Time	20Years

MODEL: AH-20KW



Model	AH-20KW	Swept Area	75.39m ²
Performance		Tower Height	≥20, HOT DIP GALVANIZED
Rated Power	20KW	Generator Paramaters	
Max Power	22KW	Rated Speed	175RPM
Start Wind Speed	2.5M/S(5.59MPH)	Rated Working Voltage	DC280V/DC450V
Rated Wind Speed	10M/S(22.37MPH)	Start Torque	<0.3N.M
Working Wind Speed	3-30M/S(6.71-67.2MPH)	Generator Type	Three-phase AC Permanent Magnet Generator
Safety Wind Speed	60M/S(133.8MPH)	Wind Answering Method	Up Wind+Yawing
Physical Parameters		Stop Method	Pitch Brake+Active Yaw
Blades Length	4.5M(14.8FT)	Speed Mode	Pitch+Active Yaw+Electromagnetic Brake
Blades Rotor Diameter	9.8M(32.1FT)	Protection Grade	IP54
Blades Material&quantity	FRP/3PCS	Working Temperature	-20- +50℃
Mill Weight	1210KG	Life Time	20Years

MODEL: AH-30KW



Model	AH-30KW	Swept Area	132m ²
Performance		Tower Height	≥20, Hot Dip Galvanized
Rated Power	30KW	Generator Paramaters	
Max Power	34KW	Rated Speed	105RPM
Start Wind Speed	2.5M/S(5.59MPH)	Rated Voltage	400VAC
Rated Wind Speed	10M/S(22.37MPH)	Start Torque	<0.3N.M
Working Wind Speed	3-30M/S(6.71-67.2MPH)	Speed Regulation Method	Auto Yawing+Pitch-controlled
Safety Wind Speed	60M/S(133.8MPH)	Wind Answering Method	Up Wind+Yawing
Physical Parameters		Stop Method	Auto Brake
Blades Length	5.8M(19.02FT)	Gale protection	Smart Control+Unattended
Blades Rotor Diameter	13.1M(42.97FT)	Protection Grade	IP54
Blades Material&quantity	FRP/3PCS	Working Temperature	-20- +50℃
Mill Weight	2800KG	Life Time	20Years

Horizontal Axis Wind Turbine Series

MODEL: GH-1KW/2KW



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GH Products Introduction



Model	GH-1KW	GH-2KW	Top Weight	46KG	60kg
Rated Power	1000W	2000W	Tower Height	6m(19.68ft) Free Stand Tower	6M, 12M AVAILABLE
Start Wind Speed	3M/S(6.72MPH)	3M/S(6.72MPH)	Generator Paramaters		
Rated Wind Speed	9M/S(20.1MPH)	9M/S(20.1MPH)	Generator Type	Permanent Magnet Generator	Direct-drive permanent magnet generator 3-phase AC PM
Working Wind Speed	4-25M/S (8.96-56MPH)	4-25M/S (8.96-56MPH)	Rated Speed	360RPM	320RPM
Safety Wind Speed	50M/S(112MPH)	50M/S(112MPH)	Option Voltage	24-220VAC	24-220VAC
Physical Parameters			Protection Method	Automatic Yawing Protection Electromagnetic Brake+PWM	Wind pressure automatic yaw protection electromagnetic brake protection
Blades Rotor Diameter	2.8M(9.2FT)	3.6M(12.47FT)	Protection Grade	IP54	IP54
Blades Material&quantity	FRP/3PCS	FRP/3PCS	Working Temperature	-40- +50℃	-25℃ - 55℃

MODEL: GH-3KW/5KW



Model	GH-3KW	GH-5KW	Top Weight	130KG	150KG
Rated Power	3000W	5000W	Tower Height	8M, 12M AVAILABLE	8M(26.24FT) Guy Wire Tower
Start Wind Speed	3M/S(6.72MPH)	3M/S(6.72MPH)	Generator Paramaters		
Rated Wind Speed	9M/S(20.1MPH)	10M/S(22.4MPH)	Generator Type	Direct-drive permanent magnet generator 3-phase AC PM	Permanent Magnet Generator
Working Wind Speed	4-25M/S (8.96-56MPH)	4-25M/S (8.96-56MPH)	Rated Speed	240RPM	250RPM
Safety Wind Speed	50M/S(112MPH)	50M/S(112MPH)	Option Voltage	48-220VAC	24-220VAC
Physical Parameters			Protection Method	Wind pressure automatic yaw protection electromagnetic brake protection	Electromagnetic Brake+PWM
Blades Rotor Diameter	4.6M(15.1FT)	5.4M(17.7FT)	Protection Grade	IP54	IP54
Blades Material&quantity	FRP/3PCS	FRP/3PCS	Working Temperature	-25℃ - 55℃	-40- +50℃

MODEL: GH-10KW

Model	GH-10KW	Swept Area	38.47m ²
Rated Power	10000W	Tower Height	12M(39.36FT)Free Stand Tower
Start Wind Speed	3M/S(6.72MPH)	Generator Paramaters	
Rated Wind Speed	10M/S(22.4MPH)	Generator Type	Permanent Magnet Generator
Working Wind Speed	4-25M/S(6.72-56MPH)	Rated Speed	250RPM
Safety Wind Speed	50M/S(112MPH)	Start Torque	7.5N.M
Physical Parameters		Option Voltage	120-500Vac
Blades Length	3.8M(12.46FT)	Protection Method	Electromagnetic Brake+PWM
Blades Rotor Diameter	7M(22.97FT)	Protection Grade	IP54
Blades Material&quantity	FRP/3PCS	Working Temperature	-40-50℃
Top Weight	650KG	Life Time	20Years

MODEL: GH-20KW

Model	GH-20KW	Swept Area	63.59m ²
Rated Power	20000W	Tower Height	18M(59.04FT)Free Stand Tower
Start Wind Speed	3M/S(6.72MPH)	Generator Paramaters	
Rated Wind Speed	10M/S(22.4MPH)	Generator Type	Permanent Magnet Generator
Working Wind Speed	4-25M/S(8.96-56MPH)	Rated Speed	180RPM
Safety Wind Speed	50M/S(112MPH)	Start Torque	10N.M
Physical Parameters		Option Voltage	240-500Vac
Blades Length	4.795M(15.73FT)	Protection Method	Electromagnetic Brake+PWM
Blades Rotor Diameter	10M(32.8FT)	Protection Grade	IP54
Blades Material&quantity	FRP/3PCS	Working Temperature	-40- +50℃
Top Weight	1200KG	Life Time	20Years

MODEL: GH-30KW



Model	GH-30KW	Swept Area	113.04m ²
Rated Power	30000W	Tower Height	18M(59.04FT)Free Stand Tower
Start Wind Speed	3M/S(6.72MPH)	Generator Paramaters	
Rated Wind Speed	10M/S(22.4MPH)	Generator Type	Permanent Magnet Generator
Working Wind Speed	4-25M/S(8.96-56MPH)	Rated Speed	180RPM
Safety Wind Speed	50M/S(112MPH)	Start Torque	11.5N.M
Physical Parameters		Option Voltage	240-500Vac
Blades Length	5.885M(19.3FT)	Protection Method	Electromagnetic Brake+PWM
Blades Rotor Diameter	12M(39.36FT)	Protection Grade	IP54
Blades Material&quantity	FRP/3PCS	Working Temperature	-40- +50℃
Top Weight	1500KG	Life Time	20Years

MODEL: GH-50KW

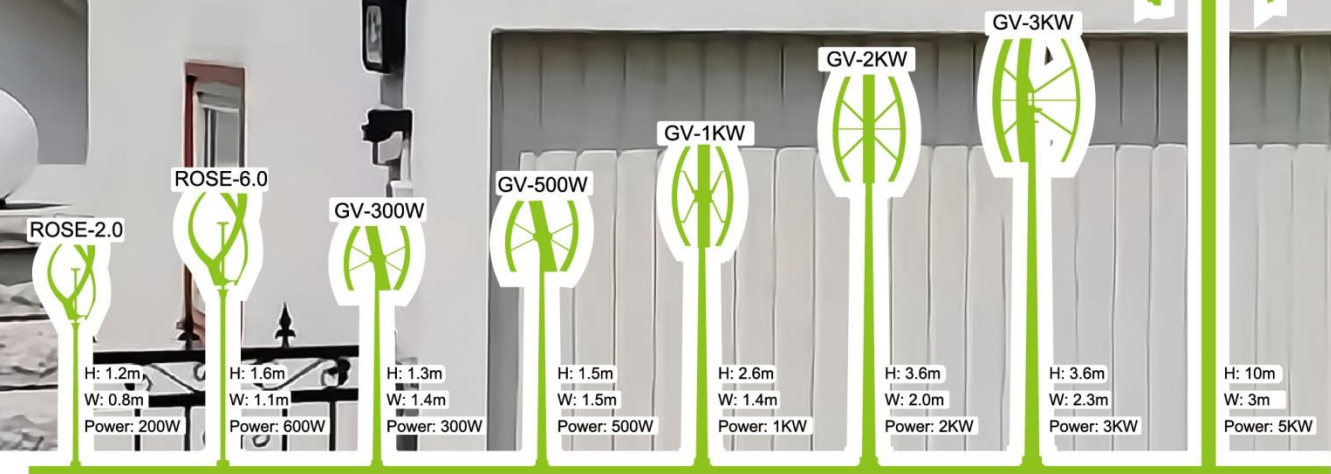
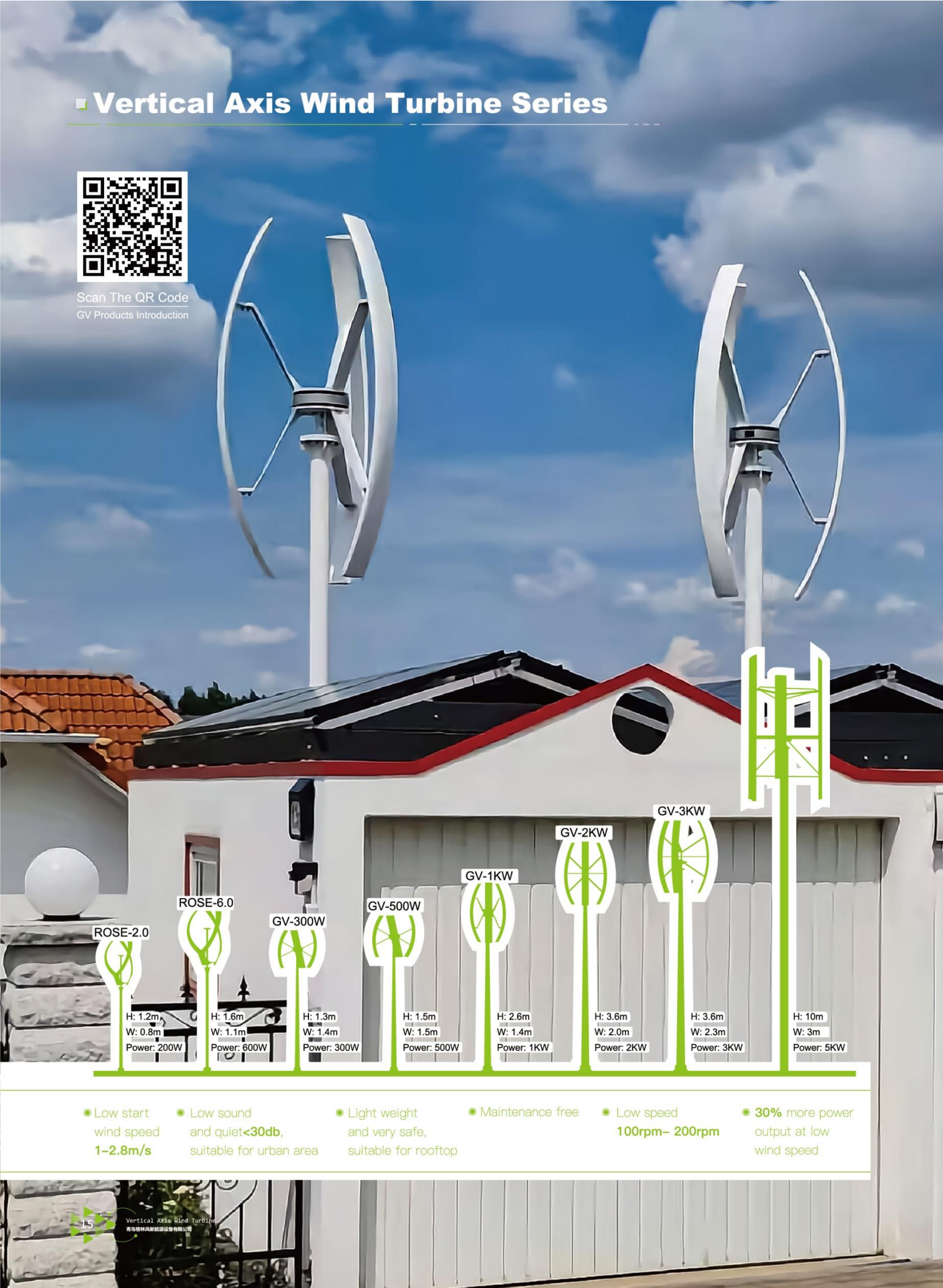


Model	GH-50KW	Tower Weight	2500-2800KG
Rated Power	50000W	Tower Height	18M(59.1FT)Free Stand Tower
Start Wind Speed	3M/S(6.72MPH)	Generator Paramaters	
Rated Wind Speed	10M/S(22.4MPH)	Generator Type	Permanent Magnet Generator
Working Wind Speed	4-25M/S(8.96-56MPH)	Rated Speed	100RPM
Safety Wind Speed	35M/S(78.3MPH)	Option Voltage	240-500VAC
Physical Parameters		Protection Method	Electromagnetic Brake+PWM
Blades Rotor Diameter	15.5M(50.9FT)	Protection Grade	IP54
Blades Material&quantity	FRP/3PCS	Working Temperature	-40- +50℃

Vertical Axis Wind Turbine Series



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GV Products Introduction



- Low start wind speed 1-2.8m/s
- Low sound and quiet<30db, suitable for urban area
- Light weight and very safe, suitable for rooftop
- Maintenance free
- Low speed 100rpm- 200rpm
- 30% more power output at low wind speed

MODEL: ROSE-2.0/6.0



Model	ROSE-2.0	ROSE-6.0	Top Weight	30KG	56KG
Performance			Swept Area	0.90m²	1.68m²
Rated Power	200W	600W	Tower Height	6m(19.68ft)	6m(19.68ft)
Max Power	250W	700W	Generator Parameters		
Start Wind Speed	1M/S(2.24MPH)	1.8M/S(4.03MPH)	Generator Type	Axial Flux Coreless Outer Rotor Disc Permanent Magnet Direct Drive Generator	Axial Flux Coreless Outer Rotor Disc Permanent Magnet Direct Drive Generator
Rated Wind Speed	10M/S(22.4MPH)	11M/S(22.4MPH)	Rated Speed	200RPM	250RPM
Working Wind Speed	1-25m/s (2.24-56mph)	2-25m/s (4.45-56mph)	Start Torque	<0.1N.M	<0.1N.M
Safety Wind Speed	50M/S(112MPH)	50M/S(112MPH)	Option Voltage	12-24V	12-24V
Physical Parameters			Protection Method	Electromagnetic Brake+PWM	Electromagnetic Brake+PWM
Blades Length	1.28M(4.20FT)	1.6M(5.25FT)	Protection Grade	IP54	IP54
Blades Rotor Diameter	0.78M(2.56FT)	1.06M(3.48FT)	Working Temperature	-40- +50℃	-40- +50℃
Blades Material&quantity	FRP/3PCS	FRP/3PCS	Life Time	20Years	20Years

MODEL: GV-300W/500W



Model	GV-300W	GV-500W	Mill Weight	50KG	64KG
Performance			Swept Area	1.82m ²	2.25m ²
Rated Power	300W	500W	Tower Height	6m(19.68ft)	6m(19.68ft)
Max Power	400W	650W	Generator Parameters		
Start Wind Speed	1M/S(2.24MPH)	1M/S(2.24MPH)	Generator Type	Axial Flux Coreless Outer Rotor Disc Permanent Magnet Direct Drive Generator	Axial Flux Coreless Outer Rotor Disc Permanent Magnet Direct Drive Generator
Rated Wind Speed	10M/S(22.4MPH)	10M/S(22.4MPH)	Rated Speed	200RPM	200RPM
Working Wind Speed	1-25M/S(2.24-56MPH)	1-25M/S(2.24-56MPH)	Start Torque	<0.1N.M	<0.1N.M
Safety Wind Speed	50M/S(112MPH)	50M/S(112MPH)	Option Voltage	12-24V	12-24V
Physical Parameters			Protection Method	Electromagnetic Brake+PWM	Electromagnetic Brake+PWM
Blades Length	1.3M(4.264FT)	1.5M(4.92FT)	Protection Grade	IP54	IP54
Blades Rotor Diameter	1.4M(4.592FT)	1.5M(4.92FT)	Working Temperature	-40- +50℃	-40- +50℃
Blades Material&quantity	FRP/3PCS	FRP/3PCS	Life Time	20Years	20Years

MODEL: GV-1KW



Model	GV-1KW	Mill Weight	175KG
Performance		Swept Area	3.71m ²
Rated Power	1kW	Tower Height	6m(19.68ft)
Max Power	1.5kW	Generator Parameters	
Start Wind Speed	2.8M/S(6.27MPH)	Generator Type	Axial Flux Coreless Outer Rotor Disc Permanent Magnet Direct Drive Generator
Rated Wind Speed	11M/S(24.64MPH)	Rated Speed	150RPM
Working Wind Speed	3-25M/S(6.72-56MPH)	Start Torque	<0.3N.M
Safety Wind Speed	50M/S(112MPH)	Option Voltage	24-220V
Physical Parameters		Protection Method	Electromagnetic Brake+PWM
Blades Length	2.65M(8.69FT)	Protection Grade	IP54
Blades Rotor Diameter	1.4M(4.6FT)	Working Temperature	-40- +50℃
Blades Material&quantity	FRP/3PCS	Life Time	20Years

MODEL: GV-2KW



Model	GV-2KW	Mill Weight	285KG
Performance		Swept Area	8.395m ²
Rated Power	2kW	Tower Height	6m(19.68ft)
Max Power	2.5kW	Generator Parameters	
Start Wind Speed	2.8M/S(6.27MPH)	Generator Type	Axial Flux Coreless Outer Rotor Disc Permanent Magnet Direct Drive Generator
Rated Wind Speed	11M/S(24.64MPH)	Rated Speed	160RPM
Working Wind Speed	3-25M/S(6.72-56MPH)	Start Torque	<0.3N.M
Safety Wind Speed	50M/S(112MPH)	Option Voltage	24-380V
Physical Parameters		Protection Method	Electromagnetic Brake+PWM
Blades Length	3.65M(11.97FT)	Protection Grade	IP54
Blades Rotor Diameter	2.3M(7.54FT)	Working Temperature	-40- +50℃
Blades Material&quantity	FRP/3PCS	Life Time	20Years

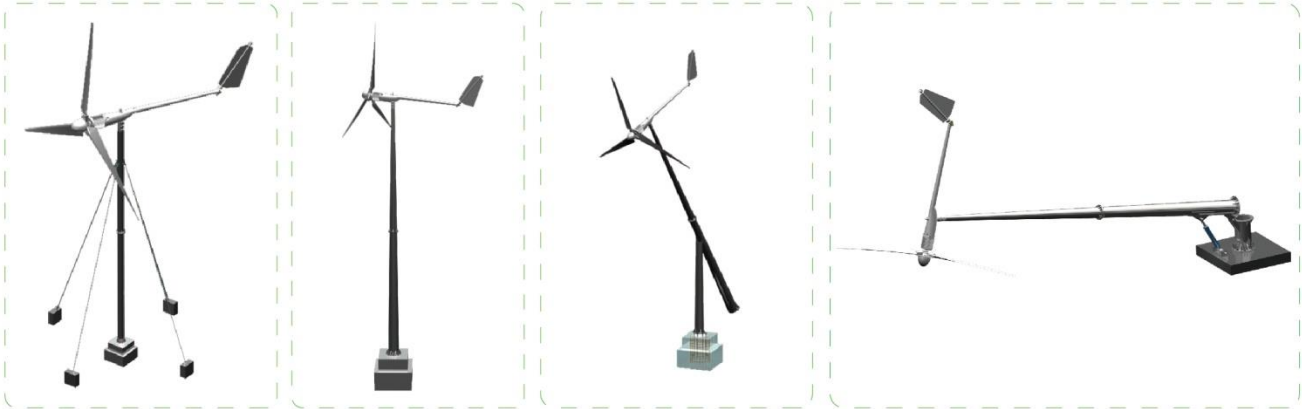
MODEL: GV-3KW



Model	GV-3KW	Mill Weight	300KG
Performance		Swept Area	8.1m ²
Rated Power	3kW	Tower Height	8m(26.24ft)
Max Power	4kW	Generator Parameters	
Start Wind Speed	2.8M/S(6.27MPH)	Generator Type	Axial Flux Coreless Outer Rotor Disc Permanent Magnet Direct Drive Generator
Rated Wind Speed	12M/S(26.88MPH)	Rated Speed	160RPM
Working Wind Speed	3-25M/S(6.72-56MPH)	Start Torque	<1N.M
Safety Wind Speed	50M/S(112MPH)	Option Voltage	48-380V
Physical Parameters		Protection Method	Electromagnetic Brake+PWM
Blades Length	3.65M(11.97FT)	Protection Grade	IP54
Blades Rotor Diameter	2.3M(7.5FT)	Working Temperature	-40-50℃
Blades Material&quantity	FRP/3PCS	Life Time	20Years

MODEL: GVH-5KW

Tower



Guy Wire Tower

Free Stand Tower

Folding Tower

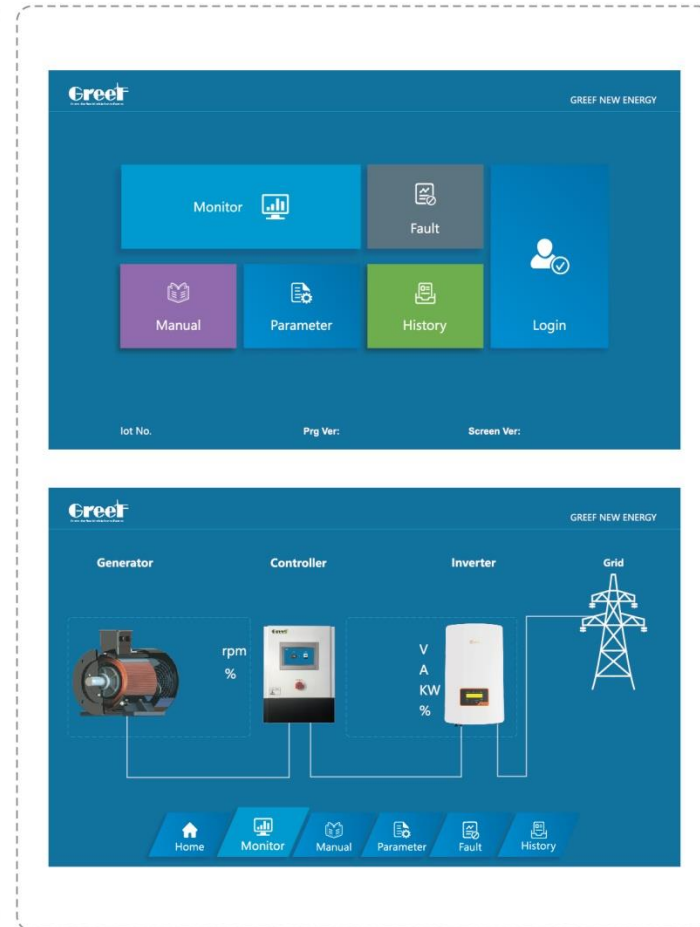
Hydraulic Tower

Blades



Model	GVH-5KW	Mill Weight	670kg
Performance		Swept Area	13.5m ²
Rated Power	5kW	Tower Height	10m
Max Power	5.5kW	Generator Parameters	
Start Wind Speed	2.5m/s(6.27mph)	Generator Type	Axial Flux Coreless outer rotor disc permanent magnet direct drive generator
Rated Wind Speed	11m/s(24.64mph)	Rated Speed	100RPM
Working Wind Speed	3-25m/s (6.72-56 mph)	Start Torque	<1N.M
Safety Wind Speed	50m/s(112mph)	Option Voltage	48-500V
Physical Parameters		Protection Method	Electromagnetic Brake +PWM
Blades Length	4.5M(19.68ft)	Protection Grade	IP54
Blades Rotor Diameter	3M(13.12ft)	Working Temperature	-40- +50℃
Blades Material&quantity	Aluminium Alloy /3PCS	Life Time	20 Years

Wind Tracker Controller



1

Communication with solar inverter make it suitable for wind turbine

2

Generator Speed measure function

3

Remotely monitoring and control function

4

Double protection system: PWM + three-phase dump load brake

5

Speed Vs Power power curve control function

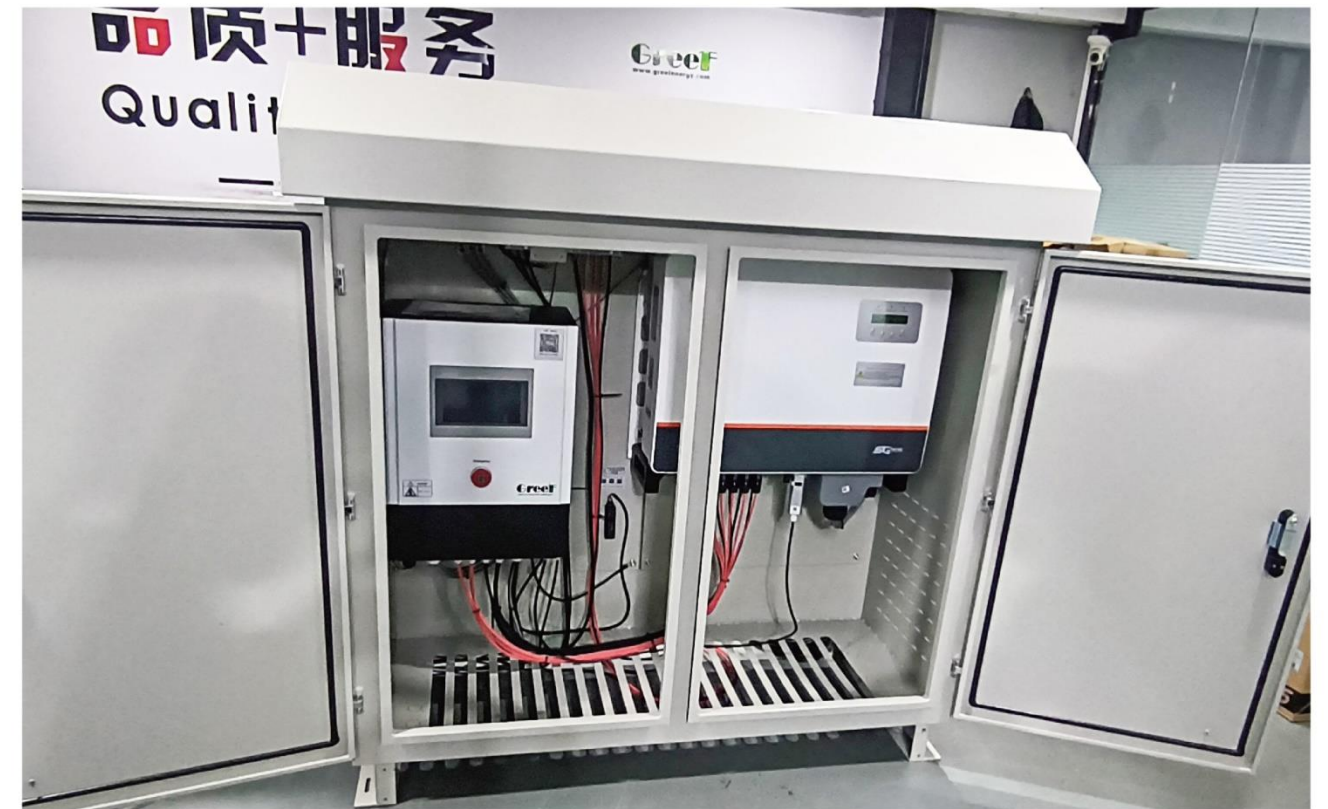
6

Wind speed measure function (optional)

7

RS485/GPRS/WIFI/Ethernet monitoring app available (optional)

Outdoor All-in-One Solutions



Controller & Inverter



CONTROLLER

Wind cotroller



CONTROLLER

Module Wind Turbine Controller with MPPT



AC-DC CONVERTOR

Hydro Power AC DC Converter



INVERTER

S6 Series Grid Inverter



INVERTER

Deye Hybrid Inverter



INVERTER

Off-grid
Pv Charge Inverter



INVERTER

Off-grid Inverter



INVERTER

Off-grid 250KW



OFF-GRID SYSTEM

Independent operation without relying on public power grid

Applications

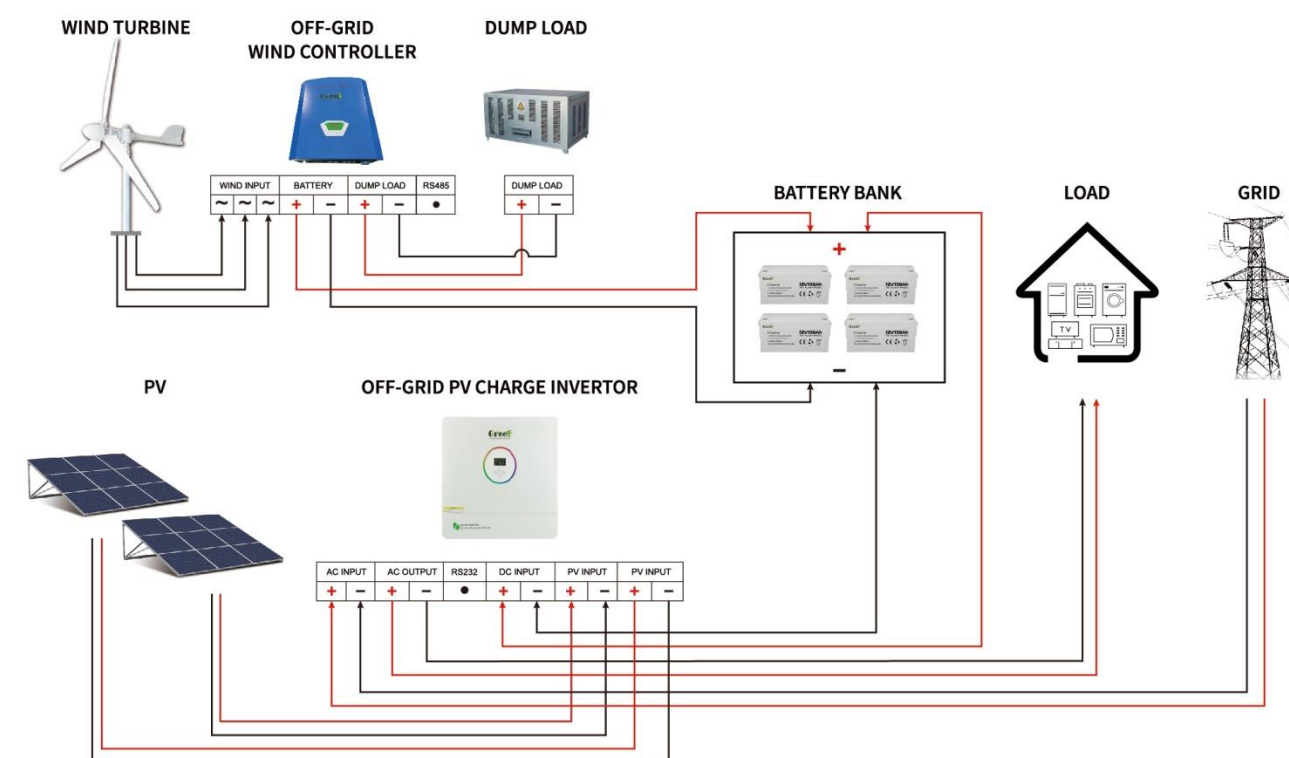
Remote mountainous areas, powerless areas, islands, communication base stations, street lights, etc.

Working Process

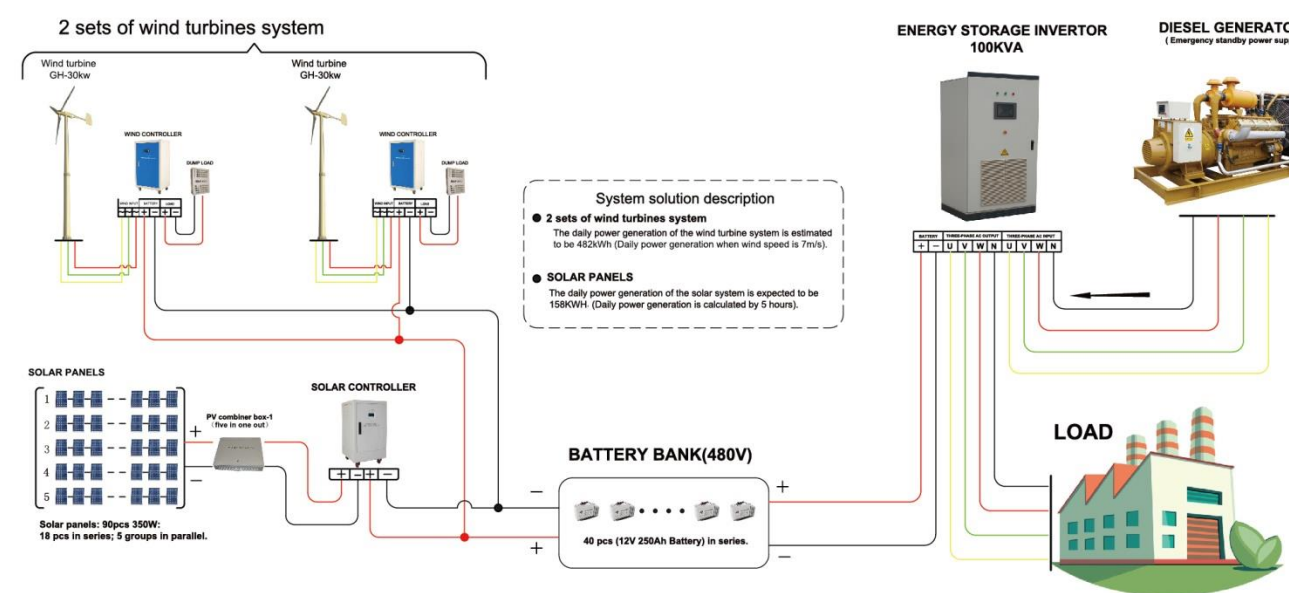
When there is sunshine and wind, power is supplied to the load through inverter and the battery is charged at the same time;

When there is no sunshine and wind, the battery controls the inverter to supply power to the load.

Off-grid Solar Wind Turbine System



Solar wind diesel hybrid generation system





Grid-connected system

On-grid Operation

It is a system that utilizes wind power generation or solar power generation to transmit the generated electricity to the local power grid in order to receive the grid sale revenue and to offset the electricity bill.

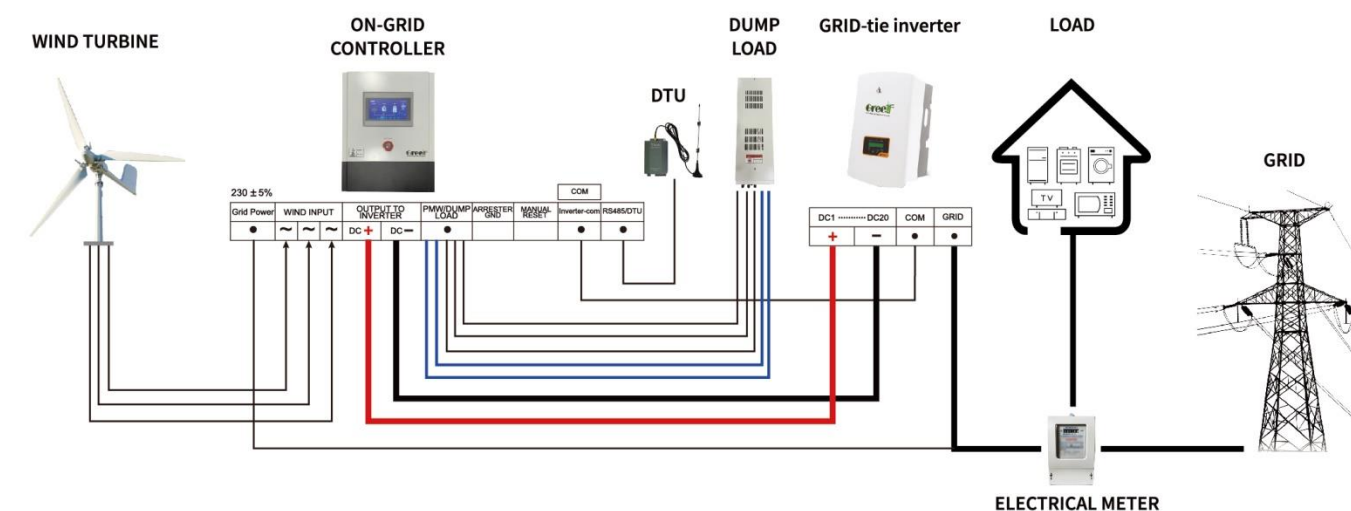
The system is widely used in project areas such as family farm island business investment.

Conditions of use

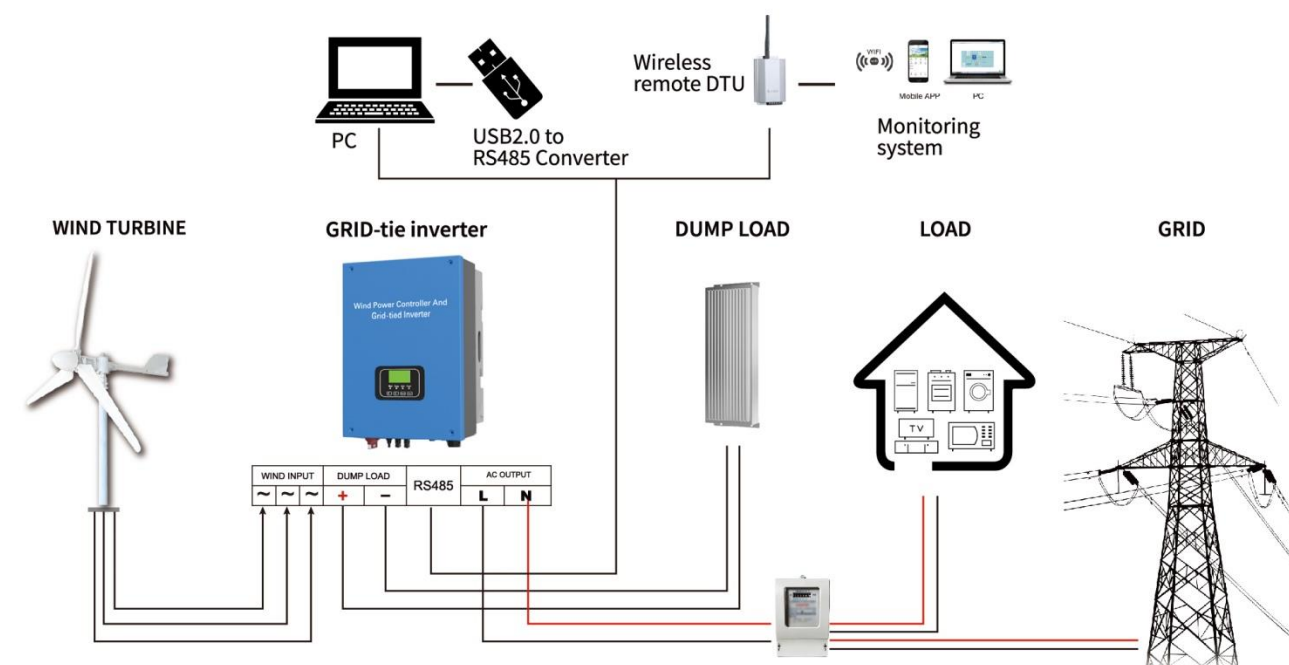
The power grid must be stable, and the system will be automatically disconnected if the power grid is disconnected.



On-grid Wind Turbine System



On-grid Solar System

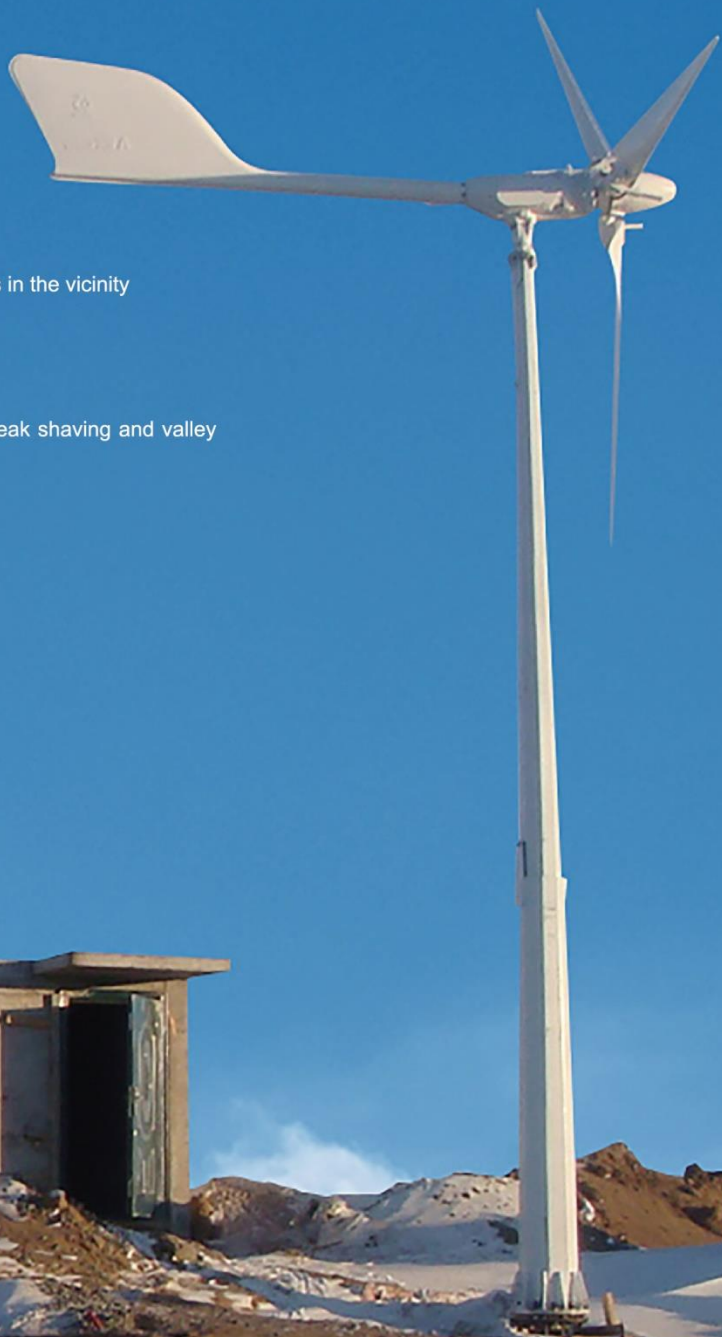




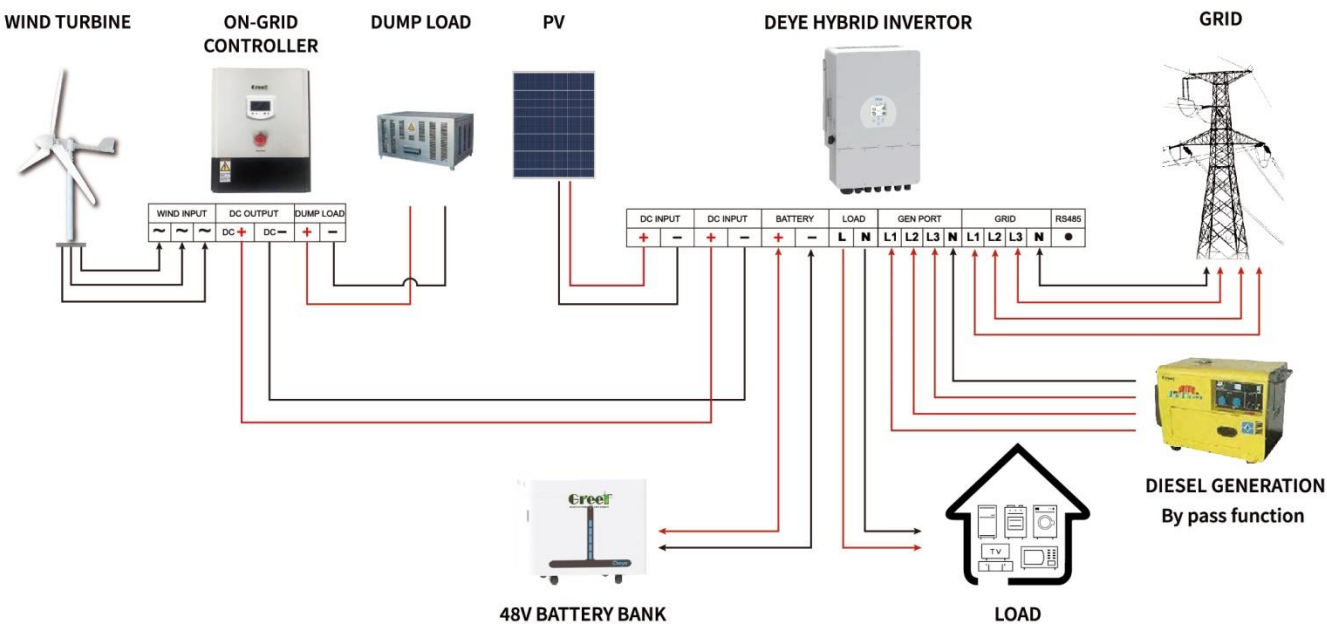
Hybrid system

Off-grid&On-grid hybrid

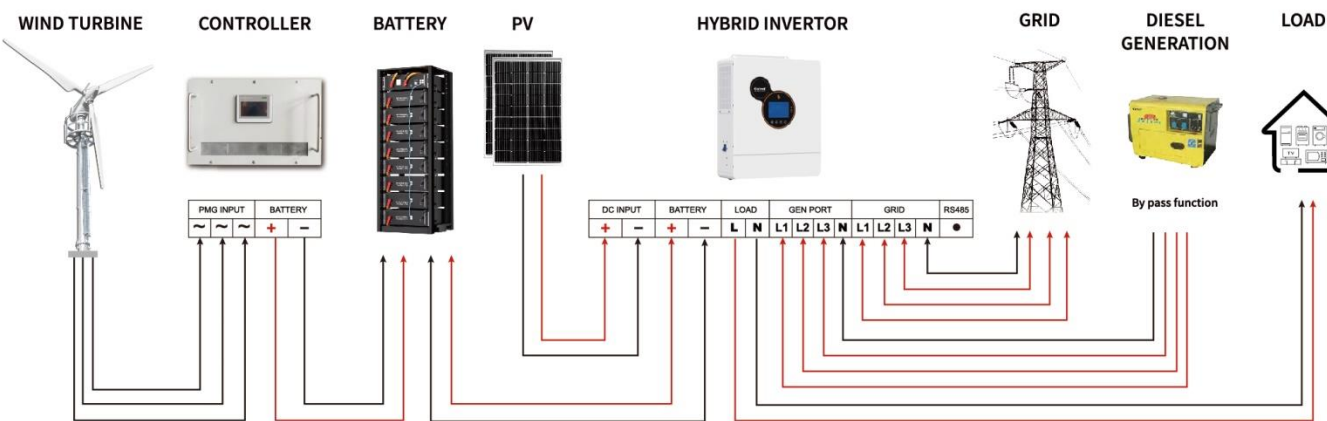
Converts decentralised energy into electricity for local loads in the vicinity
With perfect energy management system, it can realise
Grid-connected operation; off-grid operation;
Grid-connected to islanded; islanded to grid-connected;
Black start function, flatten the fluctuation of power grid, peak shaving and valley filling
Grid-friendly relationship, etc.



Hybrid Wind Solar Solution



Hybrid Solar Wind Solution



PV Solar Module



100~700 Watt



MBB PERC
Half Cut Cell



Excellent Low-light
Performance



100% Inspection
Guarantee Reliability



Anti PID



5400Pa
Strengthened
Mechanical Load



High Density
Packaging

Battery

LITHIUM ION BATTERIES



SAFETY

- Long life type prismatic LiFePO4 cells, suitable for energy storage application.
- Low voltage system, safety for application.
- Cell certification: UN38.3, ROHS, IEC62619, UL1973 and UL9540A
- Battery certification: UN38.3, MSDS, CE



SCALABILITY

- Parallel support for more energy.
- Max. 50A charge/discharge current.
- Free wiring between modules.



DESIGN

- Stacked structure, easily installation.
- -20~+55°C widely temperature range.
- Maintenance free.
- Cycle life >6000 cycles.



BATTERY MANAGEMENT SYSTEM

- Independent protection for charge and discharge.
- SOC, SOH display and PC software for detailed operation.
- OVP, LVP, OCP, OTP, LTP protection.
- CAN communication port for inverter.
- 2* Dry output port and 1* Dry input port.



Battery Module	51.2V 72Ah (3.68KWH)				
Number of Battery Modules	4	5	6	7	8
Total Energy [kWh]	14.7	18.4	22.0	25.7	29.4
Nominal Voltage [Vdc]	204.8	256	307.2	358.4	409.6
Voltage Range [Vdc]	160~240	200~300	240~360	280~420	320~480
Max. Charging Current [A]	50	50	50	50	50
Max. Discharging Current [A]	50	50	50	50	50
Pulse Discharge Current	100A/10s	100A/10s	100A/10s	100A/10s	100A/10s
Max Inverter Power [W]	10000	12800	15360	17920	20480
Dimension (W*D*H, mm)	600*450*910	600*450*1070	600*450*1230	600*450*1390	600*450*1550

RITAR GEL Battery

DG Series

DG-DG2-1000/1200/1500/2000/3000 DG-DG2-100/150/200/260

DG (Deep Cycle GEL) series is pure GEL battery with 20 years floating design life , it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented GEL electrolyte, the DG series offers excellent recovery capability after deep discharge under frequent cyclic discharge use, and it can offers 2 times cyclic life than the standard series. It is suitable for solar & wind system, marine, deep discharge UPS etc.



■ **Product Showcase**



Thank you for choosing "GREEF" new energy products. We always provide a comprehensive range of services before, during and aftersales. "GREEF NEW ENERGY guarantee as follows:

I. Warranty period:

Pitch Comntrol Wind Turbine is Three years warranty.

OFF-GRID controller & i nvertor & convertor is One years warranty.

ON-GRID Wind invertor is Three years warranty.

(1) The warranty period is start from the date of on the guarantee card.

(2) During the warranty period, the cost of maintenance services caused by our product's quality problems, be borne by our company, do not charge a fee from customers; if any maintenance outside the warranty period, our company will charge a fee from customers.

(3) During the warranty period, the freight of maintenance service caused by our product's quality problems, be borne by our company, do not charge a fee from customers; if not under warranty or not quality problem, all the freight charges by the customer.

II. Warranty:

We will provide the approved products for all customers to provide maintenance services. But in order to enable the two sides can enjoy fair Treatment, for the following reasons for failure or damage, we will not provide free warranty.

(1) When beyond the warranty period;

(2) Disasters, leaving damage to the product caused by accident;

(3) The user-transport, carrying, falling, collision and damage caused by the failure;

(4) The product as user-modification, and other failures caused by improper use and damage;

(5) The users' un-normally operation, like test with other equipment, and caused by the failure;

(6) Customer open and repair device without our guide and cause damage.

III. Maintenance services implementation:

(1) If your machine meet any problems, please take photos and videos send to our service department and explain the details of the problems. or send to the sales which you contact before.

(2) Our engineers will check the problem, and give you suggestion to solve the problem. Most of the small problem can be solved after engineer guide.

(3) If we find that any parts need to be replacement, we will send the parts to customers. Quality problem we afford all the charge within warranty period.

(4) If a major problem in our products, we will send engineers to provide appropriate support.

IV. Fees:

During the After-sale process, if we need charge fee form customers, the fees = replacement parts + technical service fees + freight + labor costs, we will provide timely material Price (cost).

