

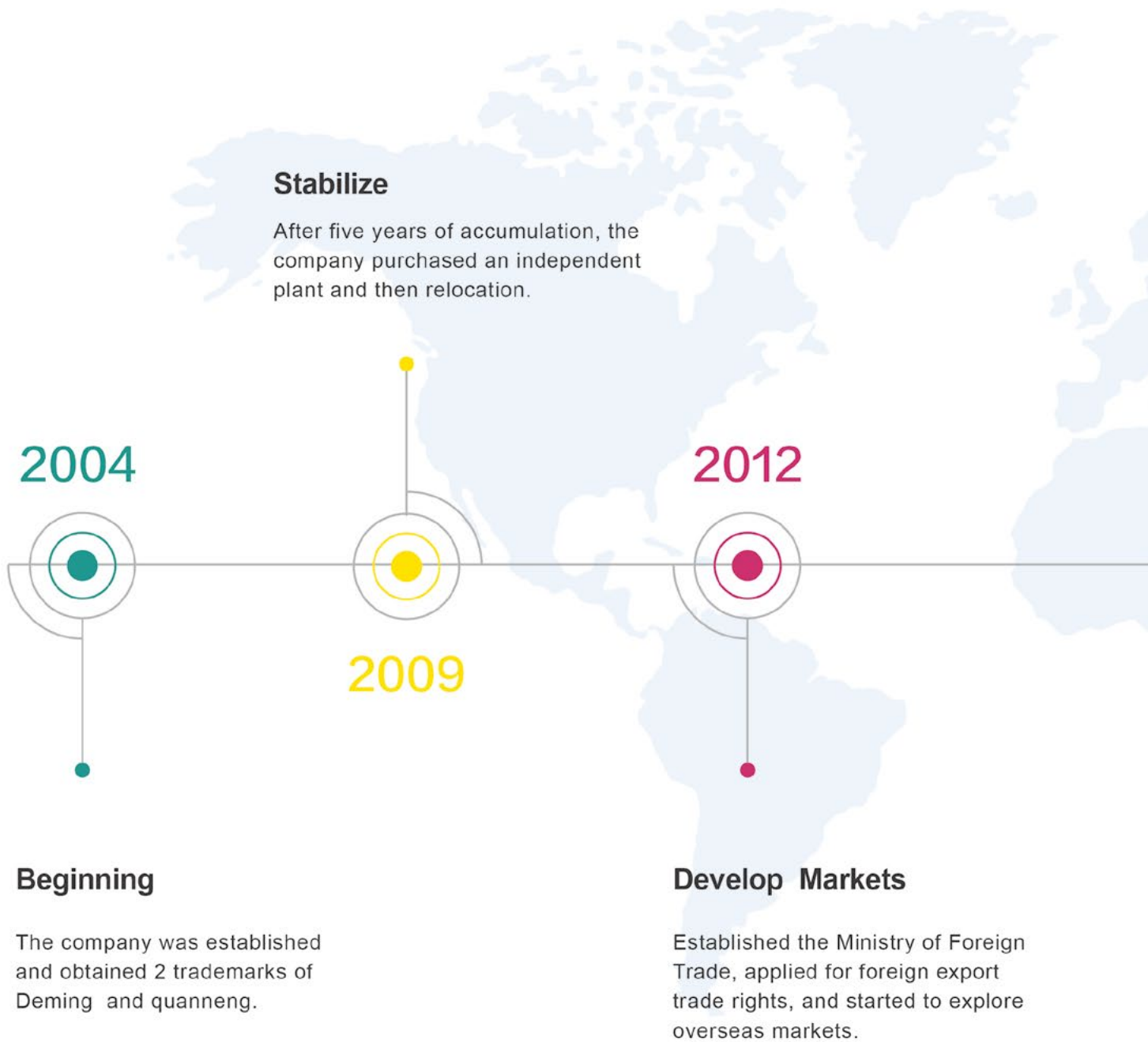
On Grid Wind Turbine System

- On grid hydroelectric generation system
- Converter

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Development Course



Progress

Owned 2 invention patents, 6 new type patents, 1 appearance patent, obtained high-tech enterprises.
Completed 9001 quality management system certification.

Future

Deming is committed to the cause of green energy conservation. Carry forward the craftsmanship. Based on the market, paying attention to customers, providing high-quality products, and jointly meeting new challenges.

2018

2015

Innovation

Possess 4 invention patents, 11 new patents, 2 software registration rights, complete the implementation of corporate intellectual property standards.

Company Profile

Jinan Deming Power Equipment Co., Ltd. is a high-tech enterprise focusing on research, production, sales and service of renewable energy power products such as wind energy and solar energy. With a high reputation in the Association and participates in the formulation of international standards for small wind turbines. It is a designated product for state aid for foreign projects and 80% of products are exported.

The company was established in 2004 and acquired two registered trademarks of "Deming" and "Quanneng" in the same year. After five years of accumulation in 2009, the company gradually matured steadily. The company purchased factory buildings with independent property rights, and the company relocated to start a new journey. In 2012, the Ministry of Foreign Trade was established to open up markets and begin to expand foreign markets. In 2015, the company achieved rapid development, with 2 invention patents, 6 utility model patents, 1 appearance patents, obtained the "high-tech enterprise certificate" recognition, and obtained the ISO 9001 quality management system certification. In 2018, the company continued to innovate, with four invention patents, six utility model patents, and two software registration rights, and again successfully recognized high-tech enterprises. On July 10, 2019, it passed the certification of intellectual property management system. In 2020, three patents for invention and six patents for utility models were applied for.

Our main products are off grid wind turbine controller, On grid wind turbine controller, solar charging controller, wind-light complementary controller, wind-light complementary street lamp controller, On grid inverter, off grid inverter, frequency converter, stabilized frequency power supply, etc.

With first-class manufacturing technology, advanced technology and equipment, strong technical force, perfect testing means and personnel management, Deming has carried out 17 research and development projects in the last three years, completed 16 transformation of scientific and technological achievements, and invested all by itself to implement the transformation, averaging 5.3 transformation of scientific and technological achievements each year.

Deming takes technological innovation as the basis of enterprise development, annual R&D cost is not less than 20% of sales revenue, and continuously explores advanced technologies in the field of new energy power sources, such as electromagnetic control technology for wind turbines, MPPT technology, yaw wind turbines control technology, wind and solar complementary system Internet of Things monitoring, etc. Now it has five national invention patents for core technologies, twelve utility model patents, and the control technology for wind turbines has reached the advanced international level.

Deming has a complete product quality assurance system and 9001 certification. Perform comprehensive quality control, rigorous test one by one, each performance is superior to the relevant national standards, all products have passed the EU CE certification. Ensure user safety and reliable use. Now the company's products have been the preferred supporting products for the well-known domestic manufacturers. The products export to more than 120 countries and regions, such as Germany, Japan, the United States, the United Kingdom, Canada, Australia, Egypt, Brazil, Saudi Arabia, and have established a good image in the domestic and foreign markets.

We are based on the market, pay attention to customers, provide high-quality products, adhere to technological progress, scientific management and standardized operation are the key to our success. We will jointly meet the challenges of the new century, shape a good image outside, and construct the blueprint of a modern enterprise in an all-round and three-dimensional way.



About Us

Professional Technical Team

Our technical team has engaged in wind and solar power research and production for 37 years, since 1990. Deming was founded in 2004, 16 years only to do one thing.



Craftsmanship Spirit

Each component is strictly tested before production and each product must pass aging quality test before delivery.

Innovation Ability

Our products keep on technical innovation every year, and we have got 16 invention patents. All products have achieved remote communication and data cloud storage function.



Integrated System Specialist

Deming is China's earliest factory specialized in production of wind controllers. We cooperate with some outstanding wind turbine factories. We can provide high quality integrated wind solar hybrid systems.



**工厂
PRODUCTION
MANAGEMENT**



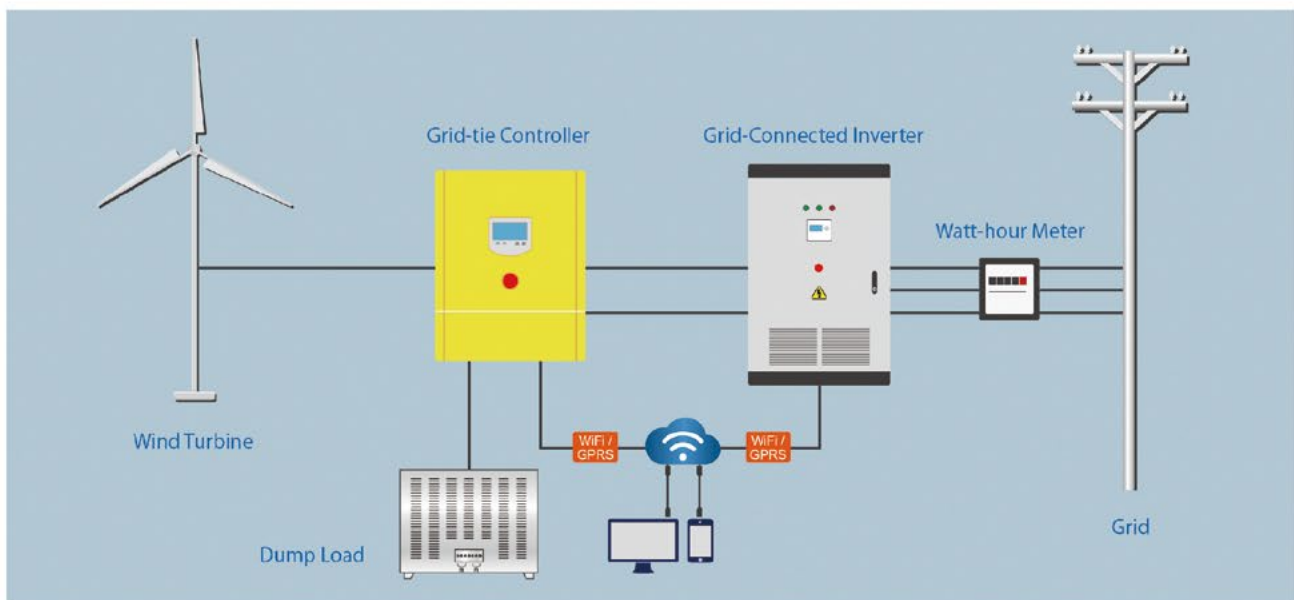
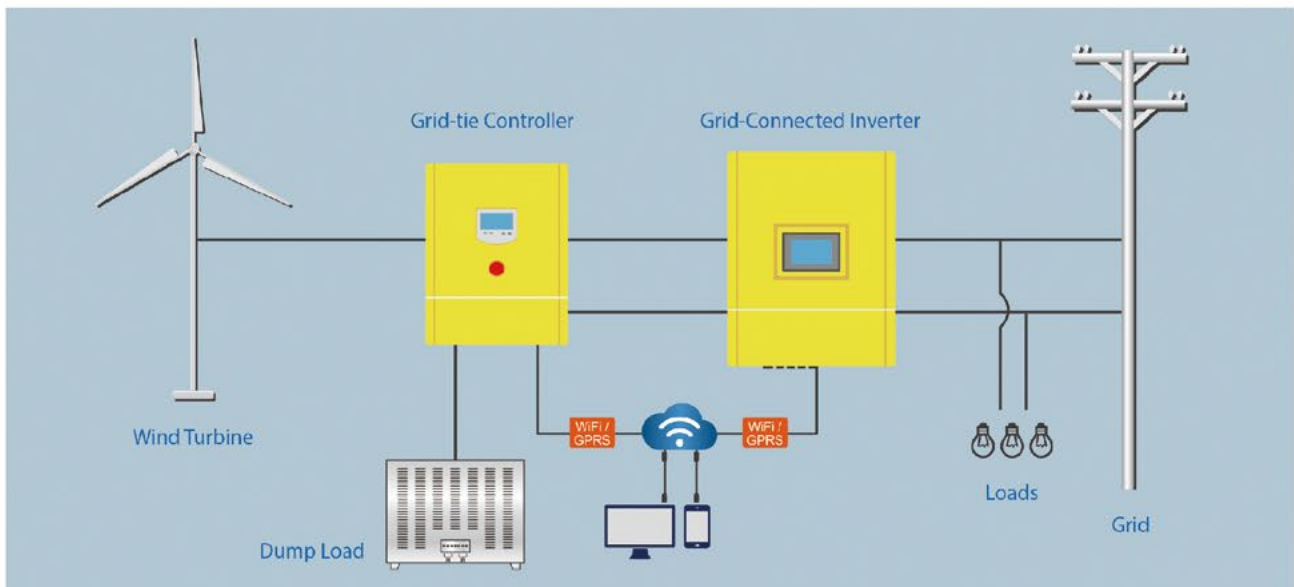
**荣誉证书
CERTIFICATE**

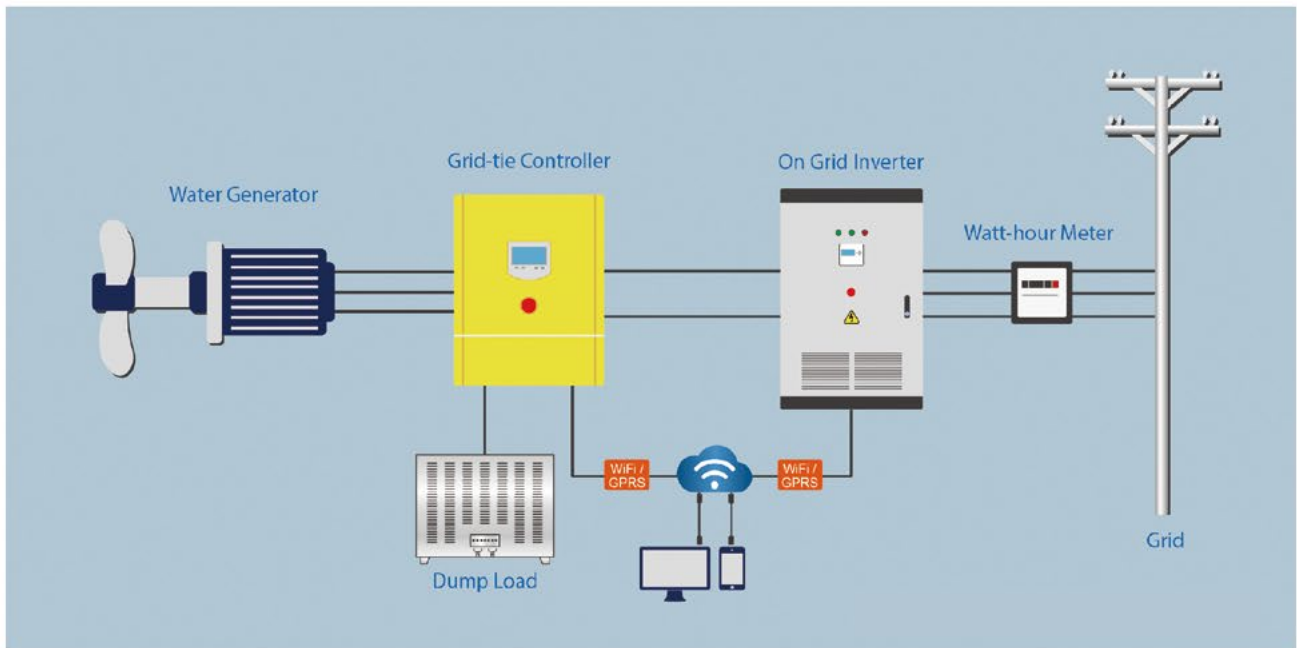


**展会
EXHIBITIONS**

On Grid Wind Turbine / Hydroelectric Generation System

The On grid wind turbine system is composed of wind turbine, on grid controller, on grid inverter, metering device, and power distribution system. Wind energy is converted into AC electrical energy by the wind turbine, and then converted into DC electrical energy by the on grid controller, and then DC electrical energy is converted into AC electrical energy of the same frequency and phase as the grid by the on grid inverter, and part of the power is supplied to the local load. Surplus power is fed into the grid.





On Grid Wind Turbine / Hydroelectric Generation Controller Performance Characteristics

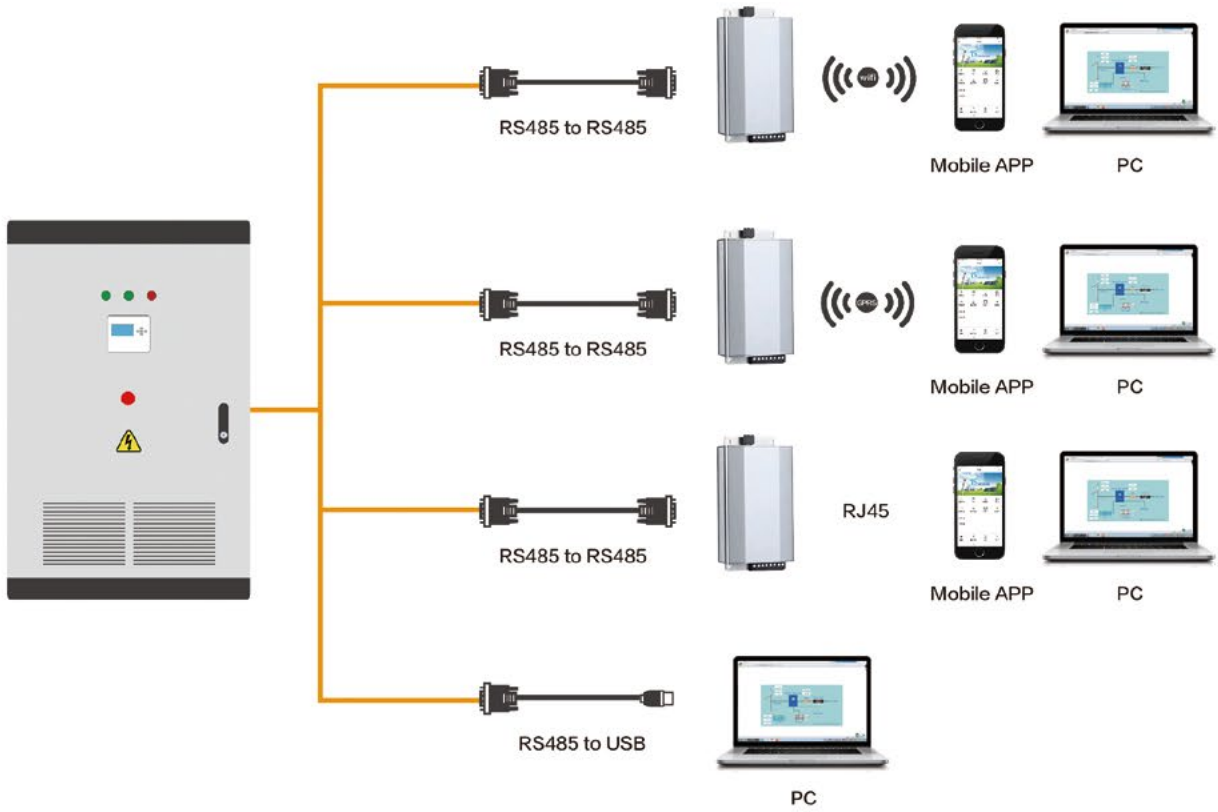
- This product is produced according to the industry standard JB/T6939.1-2004 and the national standard GB/T19115.1-2003. It can also be produced according to the technical requirements of users.
- Color touch screen display. Visually display the working status of the controller. Rich data display: real-time wind turbine voltage and current, solar panel voltage and current, DC output voltage and current, and cumulative power generation.
- The technical parameters of the controller can be adjusted through the touch screen. The control parameters can be adjusted for different wind turbines.
- Two sets of control systems are adopted, PWM constant voltage and constant current system +three-phase braking system.
- Current control, wind speed control and wind turbine speed control can be added, and the control parameters can be set.

- In the case of strong winds, the constant voltage and constant current output of the controller provides DC constant voltage power to ensure the normal operation of the inverter.
- When the on grid inverter is offline, the controller outputs a constant voltage and waits for the inverter to return to work.
- When the grid is cut off, the controller will automatically control wind turbine brake and the inverter will stop output to grid. When the grid resuming, the controller stops brake wind turbine and the inverter will resume power supply.
- The inside of the controller is equipped with surge protector. Contain the over voltage into the wind turbine under the bearable voltage of the equipment or system. On another way, to conduct the strong lightening current into the earth directly to avoid any damage of equipment.
- Controller has an emergency stop switch, in case of emergency, when the button is pressed the front panel, cut off all power supply of the controller and the wind turbine will immediately brake.
- The controller has a manual brake switch. To using this switch, the wind turbine will brake.
- Using Modbus communication protocol. Convenient for customers to conduct secondary development.
- Support RS485, WiFi, GPRS, Ethernet and other communication methods. You can monitor the working status of the on grid wind power generation system in real time through the PC or mobile phone , and you can also query the historical working status. The mobile terminal is compatible with Android and IOS. All data can be connected to the Internet of Things.
- The solar panel control system can be added according to customer needs.
- The controller can add various control functions such as yaw control, pitch control, mechanical folding tail control, mechanical brake, hydraulic brake, electromagnetic brake, etc. according to the type of wind turbine.

On Grid Wind Turbine / Hydroelectric Generation Inverter Performance Characteristics

- The main circuit uses the DSP chip produced by the American TI company, German Infineon IGBT module, drive protection is the Japanese Mitsubishi movement, and the on grid output part use isolation transformer, which is safe and reliable.
- Using SPWM pulse width modulation technology, pure sine wave output, automatic synchronous tracking with the grid, power factor close to 1, low current harmonic content, no pollution to the grid, no impact.
- Wind turbine input maximum power tracking technology (MPPT).
- The power curve of the wind turbine can be set, the default is 20 points, and the internal expansion is 50.
- 7-inch color touch screen display, system operation data and fault information at a glance, and convenient parameter setting.
- On grid inverter current closed-loop control, controllable and adjustable.
- The input DC voltage range is wide, adapt to the needs of different occasions.
- Frequency disturbance detection technology to realize anti-island control.
- The comprehensive power protection scheme and perfect self-detection and protection functions will stop the on grid inverter when a system failure occurs.
- Circuit structure is compact, the maximum efficiency $\geq 98\%$.
- Support RS485, WiFi, GPRS, Ethernet and other communication methods. You can monitor the working status of the on grid wind power generation system in real time through the PC or mobile phone, and you can also query the historical working status. The mobile terminal is compatible with Android and IOS. All data can be connected to the Internet of Things.

Multiple Communication Methods



Product Type And Specifications



3KW-5KW On grid wind turbine controller and single phase inverter
3KW-5KW hydroelectric generation controller and single phase inverter

3KW-5KW On grid wind turbine controller and single phase inverter

3KW-5KW hydroelectric generation controller and single phase inverter

On grid wind turbine controller		WGMC3K220	WGMC5K220
Wind turbine input			
Power		3KW	5KW
Max. Control power / current		6KW/20A	10KW/34A
Rated voltage of wind turbine (AC)		220V	220V
Input voltage range	AC	0-330V	0-330V
	DC	0-450V	0-450V
Braking voltage (DC)	Default	350V±1%	350V±1%
	Set range	320-350V	320-350V
Braking current (DC)	Default	15A	25A
	Set range	0-15A	0-25A
Braking time	Default	10-20 min	
	Set range	0-5000 min	
* Generator overspeed control	Default	>300 rpm/min	
	Set range	0-1000 rpm/min	
* Over wind speed control	Default	14 m/s	
	Set range	0-45 m/s	
Manual control	Manual brake , *remote control brake (with communication function)		
Automatic control function	Dump load control, * yaw, * pitch, * mechanical brake, * hydraulic brake, * electromagnetic brake		
* PV. Input			
Rated power (increased)		3KWp	3KWp
Working voltage (DC)		320V / 400V	320V / 400V
DC output parameters			
Output voltage range (DC)		0-350V	0-350V
Constant voltage (DC)	Default	310V±1%	310V±1%
	Set range	300-330V	300-330V
Constant current (DC)	Default	12A	20A
	Set range	0-12A	0-20A
On grid wind turbine inverter		DMWG3KTL	DMWG5KTL
Rated output power (AC)		3KW	5KW
Max. Output power (AC)		3.3KW	5.5KW
Input voltage rang (DC)		0-450V	0-450V
MPPT Voltage range (DC)		100V-400V	100V-400V
Max. Input current (DC)		11.2A	18.7A
Rated current		10.2A	17A
THD Current harmonic		<3% (at rated power)	
Power factor		> 0.99	
Max. efficiency		98%	
Allowable grid voltage range (AC)		110V/120V/220V (Single-phase)±20%	
Allowable grid frequency range		50Hz/60Hz±10%	
Automatic operation conditions		DC input and power grid meet the requirements, the inverter operates automatically	
Restart time after power failure		2min(Adjustable)	

General parameters	
Function	Rectification, DC output, output voltage control, output current control, Dump load control, control parameter setting, wind turbine curve setting
Automatic protection	Control part: Over voltage protection, over current protection, reverse connection protection, lightning arrester Inverter part: Polarity reverse connection protection, short circuit protection, island effect protection, LVRT, overheat protection, overload protection, ground fault protection, etc
Display	Touch screen, LCD
Monitoring content	Wind turbine voltage, current, power, solar panel voltage, current, power, DC output voltage, current, power, inverter output power, * cumulative power generation, * power generation at any time, * rotational speed, * wind speed
Protection level	IP20 (Indoor) IP65 (Outdoors)
Telematics	RS485/USB/GPRS/WIFI/Ethernet (optional)
Environment	Operating amb. Temp. & Hum -30-60°C, < 90% no condensation
Noise (1m)	< 40dB
Refrigeration mode	Forced air cooling
Controller size / weight	360*230*480mm 17kg 360*230*480mm 18kg
Dump load size / weight	400*400*250mm 12kg 600*450*380mm 28kg
Inverter size / weight	450*275*770mm 39kg 450*275*770mm 44kg

*Above parameter only for reference. Could be custom made to user specifications.

Product Type And Specifications



**3KW-5KW On grid wind turbine controller and three phase inverter
3KW-5KW hydroelectric generation controller and three phase inverter**

3KW-5KW On grid wind turbine controller and three phase inverter

3KW-5KW hydroelectric generation controller and three phase inverter

On grid wind turbine controller		WGMC3K380	WGMC5K380
Wind turbine input			
Power		3KW	5KW
Max. Control power / current		6KW/12A	10KW/20A
Rated voltage of wind turbine (AC)		380V	380V
Input voltage range	AC	0-600V	0-600V
	DC	0-900V	0-900V
Braking voltage (DC)	Default	550V±1%	550V±1%
	Set range	530-560V	530-560V
Braking current (DC)	Default	9A	15A
	Set range	0-9A	0-15A
Braking time	Default	10-20 min	
	Set range	0-5000min	
* Generator overspeed control	Default	> 300 rpm/min	
	Set range	0-1000 rpm/min	
* Over wind speed control	Default	14 m/s	
	Set range	0-45 m/s	
Manual control	Manual brake, *remote control brake (with communication function)		
Automatic control function	Dump load control, * yaw, * pitch, * mechanical brake, * hydraulic brake, * electromagnetic brake		
* PV. Input			
Rated power (increased)		3KWp	5KWp
Working voltage (DC)		550V / 660V	550V / 660V
DC output parameters			
Output voltage range (DC)		0-550V	0-550V
Constant voltage (DC)	520V±1%	520V±1%	520V±1%
	510-540V	510-540V	510-540V
Constant current (DC)	Default	7.5A	12A
	Set range	0-7.5A	0-12A
On grid wind turbine inverter		DMWG3KTL	DMWG5KTL
Rated output power (AC)		3KW	5KW
Max. Output power (AC)		3.3KW	5.5KW
Input voltage rang (DC)		0-800V	0-800V
MPPT Voltage range (DC)		150V-700V	150V-700V
Max. Input current (DC)		6.8A	11.2A
Rated current		6.2A	10.2A
THD Current harmonic		<3% (at rated power)	
Power factor		> 0.99	
Max. efficiency		98%	
Allowable grid voltage range (AC)		220V/380V/440V/480V (Three-phase)±20%	
Allowable grid frequency range		50Hz/60Hz±10%	
Automatic operation conditions		DC input and power grid meet the requirements, and the inverter operates automatically	
Restart time after power failure		2min(Adjustable)	

General parameters			
Function	Rectification, DC output, output voltage control, output current control, Dump load control, control parameter setting, wind turbine curve setting		
Automatic protection	Control part: Over voltage protection, over current protection, reverse connection protection, lightning arrester Inverter part: Polarity reverse connection protection, short circuit protection, island effect protection, LVRT, overheat protection, overload protection, ground fault protection, etc		
Display	Touch screen, LCD		
Monitoring content	Wind turbine voltage, current, power, solar panel voltage, current, power, DC output voltage, current, power, inverter output power, * cumulative power generation, * power generation at any time, * rotational speed, * wind speed		
Protection level	IP20 (Indoor) IP65 (Outdoors)		
Telematics	RS485/USB/GPRS/WIFI/Ethernet (optional)		
Environment	Operating amb. Temp. & Hum -30-60°C , < 90% no condensation		
Noise (1m)	< 40dB		
Refrigeration mode	Forced air cooling		
Controller size / weight	360*230*480mm	17kg	360*230*480mm 18kg
Dump load size / weight	400*400*250mm	12kg	600*450*380mm 28kg
Inverter size / weight	550*225*770mm	49kg	550*225*770mm 59kg

*Above parameter only for reference. Could be custom made to user specifications.

Product Type And Specifications



10KW-30KW On grid wind turbine controller and inverter
10KW-30KW hydroelectric generation controller and inverter

10KW-30KW On grid wind turbine controller and inverter
10KW-30KW hydroelectric generation controller and inverter

On grid wind turbine controller		WGMC10K380	WGMC20K380	WGMC30K380
Wind turbine input				
Power		10KW	20KW	30KW
Max. Control power / current		20KW/40A	40KW/80A	60KW/120A
Rated voltage of wind turbine (AC)		380V/400V	380V/400V	380V/400V
Input voltage range	AC	0-600V	0-600V	0-600V
	DC	0-900V	0-900V	0-900V
Braking voltage (DC)	Default	550V±1%	550V±1%	550V±1%
	Set range	530-560V	530-560V	530-560V
Braking current (DC)	Default	30A	60A	90A
	Set range	0-30A	0-60A	0-90A
Braking time	Default	10-20 min		
	Set range	0-5000 min		
* Generator overspeed control	Default	> 300 rpm/min		
	Set range	0-1000 rpm/min		
* Over wind speed control	Default	14 m/s		
	Set range	0-45 m/s		
Manual control	Manual brake, *remote control brake (with communication function)			
Automatic control function	Dump load control, * yaw, * pitch, * mechanical brake, * hydraulic brake, * electromagnetic brake			
* PV. Input				
Rated power (increased)		5KWp	5KWp	5KWp
Working voltage (DC)		550V / 660V	550V / 660V	550V / 660V
DC output parameters				
Output voltage range (DC)		0-550V	0-550V	0-550V
Constant voltage (DC)	Default	520V±1%	520V±1%	520V±1%
	Set range	510-540V	510-540V	510-540V
Constant current (DC)	Default	24A	48A	72A
	Set range	0-24A	0-48A	0-72A
On grid wind turbine inverter		DMWG10KTL	DMWG20KTL	DMWG30KTL
Rated output power (AC)		10KW	20KW	30KW
Max. Output power (AC)		11KW	22KW	33KW
Input voltage rang (DC)		0-800V	0-800V	0-800V
MPPT Voltage range (DC)(DC)		150V-700V	150V-700V	150V-700V
Max. Input current (DC)		2.4A	44.9A	67.3A
Rated current		20.4A	40.8A	61.2A
THD Current harmonic		<3% (at rated power)		
Power factor		> 0.99		
Max. efficiency		98%		
Allowable grid voltage range (AC)		220V/380V/440V/480V (Three-phase)±20%		
Allowable grid frequency range		50Hz/60Hz±10%		
Automatic operation conditions		DC input and power grid meet the requirements, and the inverter operates automatically		
Restart time after power failure		2min(Adjustable)		

General parameters						
Function	Rectification, DC output, output voltage control, output current control, Dump load control, control parameter setting, wind turbine curve setting					
Automatic protection	Control part: Over voltage protection, over current protection, reverse connection protection, lightning arrester Inverter part: Polarity reverse connection protection, short circuit protection, island effect protection, LVRT, overheat protection, overload protection, ground fault protection, etc					
Display	Touch screen, LCD					
Monitoring content	Wind turbine voltage, current, power, solar panel voltage, current, power, DC output voltage, current, power, inverter output power, * cumulative power generation, * power generation at any time, * rotational speed, * wind speed					
Protection level	IP20 (Indoor) IP65 (Outdoors)					
Telematics	RS485/USB/GPRS/WIFI/Ethernet (optional)					
Environment	Operating amb. Temp. & Hum -30-60°C , < 90% no condensation					
Noise (1m)	< 40dB					
Refrigeration mode	Forced air cooling					
Controller size / weight	400*230*550mm	23kg	500*230*620mm	35kg	500*230*620mm	38kg
Dump load size / weight	690*450*530mm	36kg	980*880*540mm	70kg	980*880*540mm	70kg
Inverter size / weight	690*275*770mm	42kg	690*275*770mm	58kg	690*275*770mm	65kg

*Above parameter only for reference. Could be custom made to user specifications.

Product Type And Specifications



50KW-200KW On grid wind turbine controller and inverter
50KW-200KW hydroelectric generation controller and inverter

50KW-200KW On grid wind turbine controller and inverter

50KW-200KW hydroelectric generation controller and inverter

On grid wind turbine controller		WGMC50K380	WGMC100K380	WGMC200K380
Wind turbine input				
Power		50KW	100KW	200KW
Max. Control power / current		100KW/200A	200KW/400A	400KW/800A
Rated voltage of wind turbine (AC)		380V/400V	380V/400V	380V/400V
Input voltage range	AC	0-600V	0-600V	0-600V
	DC	0-900V	0-900V	0-900V
Braking voltage (DC)	Default	550V±1%	550V±1%	550V±1%
	Set range	530-560V	530-560V	530-560V
Braking current (DC)	Default	150A	300A	600A
	Set range	0-150A	0-300A	0-600A
Braking time	Default	10-20 min		
	Set range	0-5000 min		
* Generator overspeed control	Default	> 300 rpm/min		
	Set range	0-1000 rpm/min		
* Over wind speed control	Default	14 m/s		
	Set range	0-45 m/s		
Manual control	Manual brake , *remote control brake (with communication function)			
Automatic control function	Dump load control, * yaw, * pitch, * mechanical brake, * hydraulic brake, * electromagnetic brake			
DC output parameters				
Output voltage range (DC)		0-550V	0-550V	0-550V
Constant voltage (DC)	Default	520V±1%	520V±1%	520V±1%
	Set range	510-540V	510-540V	510-540V
Constant current (DC)	Default	120A	240A	480A
	Set range	0-120A	0-240A	0-480A
On grid wind turbine inverter		DMWG50K	DMWG100K	DMWG200K
Rated output power (AC)		50KW	100KW	200KW
Max. Output power (AC)		55KW	110KW	220KW
Input voltage rang (DC)		0-800V	0-800V	0-800V
MPPT Voltage range (DC)(DC)		150V-700V	150V-700V	150V-700V
Max. Input current (DC)		114.6A	229A	458.3A
Rated current		104A	208A	416.7A
THD Current harmonic		<3% (at rated power)		
Power factor		> 0.99		
Max. efficiency		96%		
Allowable grid voltage range (AC)		220V/380V/440V/480V (Three-phase)±20%		
Allowable grid frequency range		50Hz/60Hz±10%		
Automatic operation conditions		DC input and power grid meet the requirements, and the inverter operates automatically		
Restart time after power failure		2min(Adjustable)		

General parameters			
Function	Rectification, DC output, output voltage control, output current control, Dump load control, control parameter setting, wind turbine curve setting		
Automatic protection	Control part: Over voltage protection, over current protection, reverse connection protection, lightning arrester Inverter part: Polarity reverse connection protection, short circuit protection, island effect protection, LVRT、overheat protection, overload protection, ground fault protection, etc		
Display	Touch screen, LCD		
Monitoring content	Wind turbine voltage, current, power, solar panel voltage, current, power, DC output voltage, current, power, inverter output power, * cumulative power generation, * power generation at any time, * rotational speed, * wind speed		
Protection level	IP20 (Indoor) IP65 (Outdoors)		
Telematics	RS485/USB/GPRS/WIFI/Ethernet (optional)		
Environment	Operating amb. Temp. & Hum -30-60°C , < 90% no condensation		
Noise (1m)	< 40dB		
Refrigeration mode	Forced air cooling		
Controller size / weight	500*500*900mm 56kg	600*500*1200mm 107kg	950*550*1700mm 150kg
Dump load size / weight	920*770*380mm 80kg	920*770*380mm*2 150kg	923*739*510mm*4 280kg
Inverter size / weight	750*600*1320mm 340kg	1460*860*1820mm 1.4t	1460*860*1820mm 1.6t

*Above parameter only for reference. Could be custom made to user specifications.

Product Type And Specifications



300KW-500KW On grid wind turbine controller and inverter
300KW-500KW hydroelectric generation controller and inverter

300KW-500KW On grid wind turbine controller and inverter

300KW-500KW hydroelectric generation controller and inverter

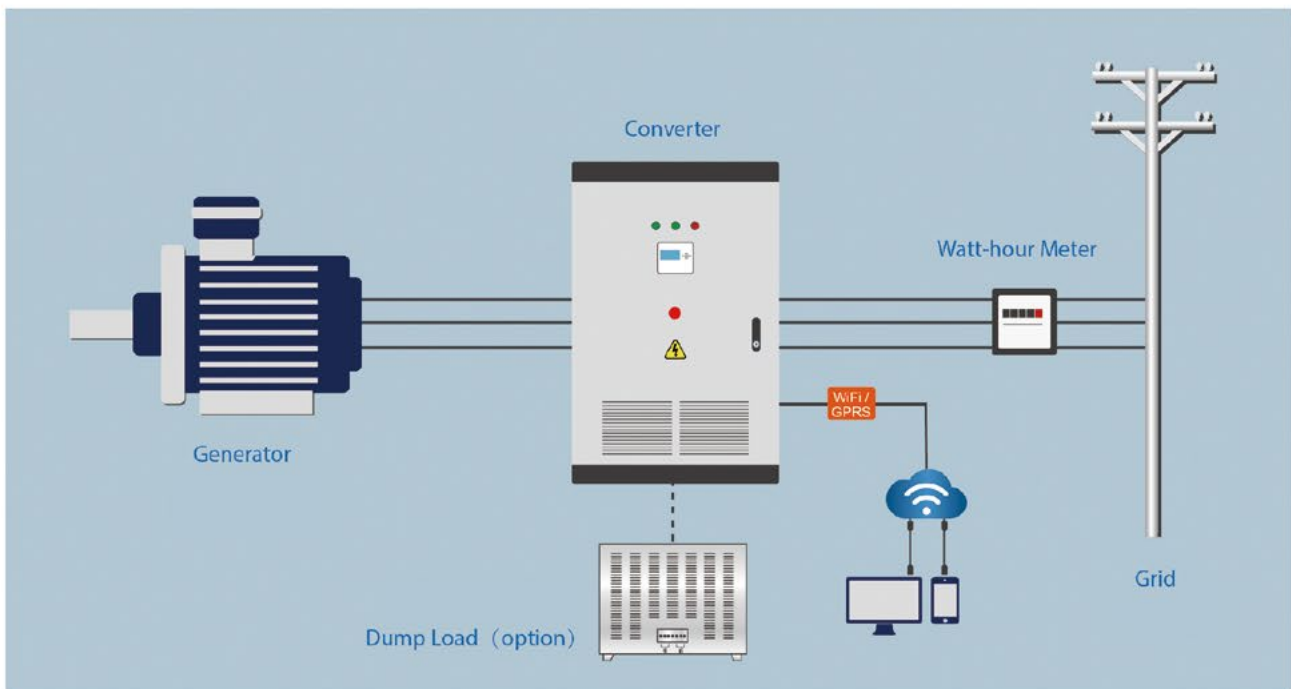
On grid wind turbine controller		WGMC300K440	WGMC500K440
Wind turbine input			
Power		300KW	500KW
Max. Control power / current		450KW/750A	750KW/1250A
Rated voltage of wind turbine (AC)		380V/440V	380V/440V
Input voltage range	AC	0-700V	0-700V
	DC	0-1000V	0-1000V
Braking voltage (DC)	Default	650V±1%	650V±1%
	Set range	630-660V	630-660V
Braking current (DC)	Default	750A	1250A
	Set range	0-750A	0-1250A
Braking time	Default	10-20 min	
	Set range	0-5000 min	
* Generator overspeed control	Default	> 300 rpm/min	
	Set range	0-1000 rpm/min	
* Over wind speed control	Default	14 m/s	
	Set range	0-45 m/s	
Manual control	Manual brake, *remote control brake (with communication function)		
Automatic control function	Dump load control, * yaw, * pitch, * mechanical brake, * hydraulic brake, * electromagnetic brake		
DC output parameters			
Output voltage range (DC)		0-650V	0-650V
Constant voltage (DC)	Default	620V±1%	620V±1%
	Set range	610-640V	610-640V
Constant current (DC)	Default	600A	1000A
	Set range	0-600A	0-1000A
On grid wind turbine inverter		DMWG300K	DMWG500K
Rated output power (AC)		300KW	500KW
Max. Output power (AC)		330KW	550KW
Input voltage rang (DC)		0-800V	0-800V
MPPT Voltage range (DC)(DC)		150V-700V	150V-700V
Max. Input current (DC)		573A	955A
Rated current		520.8A	868A
THD Current harmonic	<3% (at rated power)		
Power factor	> 0.99		
Max. efficiency	96%		
Allowable grid voltage range (AC)	220V/380V/440V/480V (Three-phase)±20%		
Allowable grid frequency range	50Hz/60Hz±10%		
Automatic operation conditions	DC input and power grid meet the requirements, and the inverter operates automatically		
Restart time after power failure	2min(Adjustable)		

General parameters	
Function	Rectification, DC output, output voltage control, output current control, Dump load control, control parameter setting, wind turbine curve setting
Automatic protection	Control part: Over voltage protection, over current protection, reverse connection protection, lightning arrester Inverter part: Polarity reverse connection protection, short circuit protection, island effect protection, LVRT、overheat protection, overload protection, ground fault protection, etc
Display	Touch screen, LCD
Monitoring content	Wind turbine voltage, current, power, solar panel voltage, current, power, DC output voltage, current, power, inverter output power, * cumulative power generation, * power generation at any time, * rotational speed, * wind speed
Protection level	IP20 (Indoor) IP65 (Outdoors)
Telematics	RS485/USB/GPRS/WIFI/Ethernet (optional)
Environment	Operating amb. Temp. & Hum -30-60°C , < 90% no condensation
Noise (1m)	< 40dB
Refrigeration mode	Forced air cooling
Inverter size / weight	2010*1060*2100mm 1.8t 2010*1200*2090mm 2.5t

*Above parameter only for reference. Could be custom made to user specifications.

Generator Power Converter Performance Characteristics And Specifications

The on grid generator power converter adopts AC-DC-AC PWM rectification plus PWM full-bridge inverter two-stage circuit technology. The core control adopts dual DSP full digital control, and realizes the stator magnetic field oriented vector control strategy on the rotor side converter of power generation. The grid-side converter implements the grid voltage directional vector control strategy; the system has the functions of adjustable input and output power factor, automatic soft grid connection and maximum power point tracking control. The power module uses high switching frequency IGBT power devices to ensure a good output waveform. This rectifier inverter device has the advantages of simple structure and less harmonic content.



- Adopt PWM rectification plus PWM full-bridge inverter two-stage circuit, which can achieve the characteristics of wide output voltage range, high precision and fast dynamic response.
- Adopt the principle of PWM rectification + PWM inverter, power factor>0.99.
- THD and injected harmonic current meet the national standard GB/T14549-93.
- Complete measurement functions: voltage, current, current peak, frequency, etc ..
- Save the fault function: support historical data query, automatically record the power status and alarm code at the time of alarm, greatly reducing maintenance time.
- Touch screen, user-friendly design, no operation for 5 minutes, automatic black screen, parameter setting requires password entry, to prevent misuse.
- 7inch color touch screen display, operating system data, fault information at a glance, convenient parameter setting.
- Support RS485, WiFi, GPRS, Ethernet and other communication methods. You can monitor the working status in real time through the PC or mobile phone, and you can also query the historical working status. The mobile terminal is compatible with Android and IOS. All data can be connected to the Internet of Things.

10KW-30KW Generator power converter

Generator power converter	DMGC10KTL	DMGC20KTL	DMGC30KTL
Generator rated power	10KW	20KW	30KW
Rated voltage of generator (AC)	400V	400V	400V
Input voltage range (AC)	0-550V	0-550V	0-550V
Rated output power (AC)	10KW	20KW	30KW
MPPT Voltage range (AC)	250-500V	250-500V	250-500V
Max. Input current (AC)	15.8A	31.7A	47.6A
Rated current (AC)	14.4A	28.8A	43.3A
THD Current harmonic	<3% (At rated power)		
Power factor	> 0.99		
Max. efficiency	98%		
Allowable grid voltage range (AC)	220V/380V/440V/480V (Three-phase)±20%		
Allowable grid frequency range	50Hz/60Hz±10%		
Automatic operation conditions	AC input and power grid meet the requirements, and the power converter operates automatically		
Restart time after power failure	2min(Adjustable)		
General parameters			
Function	Rectification, wind turbine curve setting, adjustable output power		
Automatic protection	Reverse connection protection, short circuit protection, island effect protection, LVRT, overheat protection, overload protection, ground fault protection, lightning arrester, etc		
Display	Touch screen		
Monitoring content	Generator voltage, current, power, inverter output power, * cumulative power generation, * power generation at any time		
Protection level	IP20 (Indoor) IP65 (Outdoors)		
Telematics	RS485/USB/GPRS/WIFI/Ethernet (Optional)		
Environment	Operating amb. Temp. & Hum -30-60°C , < 90% no condensation		
Noise (1m)	< 40dB		
Refrigeration mode	Forced air cooling		
size / weight	690*275*770mm 42kg	690*275*770mm 58kg	690*275*770mm 65kg

*Above parameter only for reference. Could be custom made to user specifications.

50KW-200KW Generator power converter

Generator power converter	DMGC50K	DMGC100K	DMGC200K
Generator rated power	50KW	100KW	200KW
Rated voltage of generator (AC)	400V	400V/690V	400V/690V
Input voltage range (AC)	0-550V	0-550V / 0-800V	0-550V / 0-800V
Rated output power (AC)	50KW	100KW	200KW
MPPT Voltage range (AC)	250-500V	250-500V/400-750V	250-500V/400-750V
Max. Input current (AC)	79A	158A/92A	317.5A/184A
Rated current (AC)	72A	144A/84A	288.6A/167.3A
THD Current harmonic	<3% (At rated power)		
Power factor	> 0.99		
Max. efficiency	96%		
Electrical structure	Power frequency transformer		
Allowable grid voltage range (AC)	220V/380V/440V/480V (Three-phase)±20%		
Allowable grid frequency range	50Hz/60Hz±10%		
Automatic operation conditions	AC input and power grid meet the requirements, and the power converter operates automatically		
Restart time after power failure	2min (Adjustable)		
General parameters			
Function	Rectification, wind turbine curve setting, adjustable output power		
Automatic protection	Reverse connection protection, short circuit protection, island effect protection, LVRT, overheat protection, overload protection, ground fault protection, lightning arrester, etc		
Display	Touch screen		
Monitoring content	Generator voltage, current, power, inverter output power, * cumulative power generation, * power generation at any time		
Protection level	IP20 (Indoor) IP65 (Outdoors)		
Telematics	RS485/USB/GPRS/WIFI/Ethernet (Optional)		
Environment	Operating amb. Temp. & Hum -30-60°C , < 90% no condensation		
Noise (1m)	< 40dB		
Refrigeration mode	Forced air cooling		
size / weight	750*600*1320mm 340kg	1460*860*1820mm 1.4t	1460*860*1820mm 1.6t

*Above parameter only for reference. Could be custom made to user specifications.

300KW-1000KW Generator power converter

Generator power converter	DMGC300K	DMGC500K	DMGC1000K
Generator rated power	300KW	500KW	1000KW
Rated voltage of generator (AC)	400V/690V	400V/690V	400V/690V
Input voltage range (AC)	0-550V/0-800V	0-550V/0-800V	0-550V/0-800V
Rated output power (AC)	300KW	500KW	1000KW
MPPT Voltage range (AC)	250-500V/400-750V	250-500V/400-750V	250-500V/400-750V
Max. Input current (AC)	476A/276A	794A/460A	1588A/920A
Rated output current (AC)	433A/251A	722A/418A	1444A/837A
THD Current harmonic	<3% (At rated power)		
Power factor	> 0.99		
Max. efficiency	96%		
Electrical structure	Power frequency transformer		
Allowable grid voltage range (AC)	220V/380V/440V/480V (Three-phase) ±20%		
Allowable grid frequency range	50Hz/60Hz±10%		
Automatic operation conditions	AC input and power grid meet the requirements, and the power converter operates automatically		
Restart time after power failure	2min (Adjustable)		
General parameters			
Function	Rectification, wind turbine curve setting, adjustable output power		
Automatic protection	Reverse connection protection, short circuit protection, island effect protection, LVRT, overheat protection, overload protection, ground fault protection, lightning arrester, etc		
Display	Touch screen		
Monitoring content	Generator voltage, current, power, inverter output power, * cumulative power generation, * power generation at any time		
Protection level	IP20 (Indoor) IP65 (Outdoors)		
Telematics	RS485/USB/GPRS/WIFI/Ethernet (Optional)		
Environment	Operating amb. Temp. & Hum -10-50°C , < 90% no condensation		
Noise (1m)	< 70dB		
Refrigeration mode	Forced air cooling		
size / weight	2010*1060*2000mm 1.5t	2800*1200*2000mm 2.5t	4000*1200*2000mm 4t

*Above parameter only for reference. Could be custom made to user specifications.

DeMing APP

Deming APP is intelligent terminal for hybrid wind solar power, PV power station monitoring and management person. It help user master power station running status at anytime and anywhere, realize remote data monitoring of hybrid wind solar power and PV power station, ensure convenient management and monitoring timeliness. System displays hybrid wind solar power station and PV power station running data by visual table, includes power station power generation, benefit, CO2 emission reduction benefit, equipment running status, equipment real-time data, history data query, power generation comparison, equipment performance comparison. As fashion and intelligent application, it can let user demonstrate his hybrid wind solarpower station and PV power station at any occasion, user has intuitive feeling, enhance user confidence.

- Various data output interface, support Android、iphone、ipad、windows、 macOS
- Delicate and precise data, easy to operate, download and install, Wechat binded, real-time monitoring, data synchronization
- 24-hour monitoring
- Low maintenance cost
- Power station information sharing function



Optional Parts



1. RS485 to WIFI



2. RS485 to GPRS

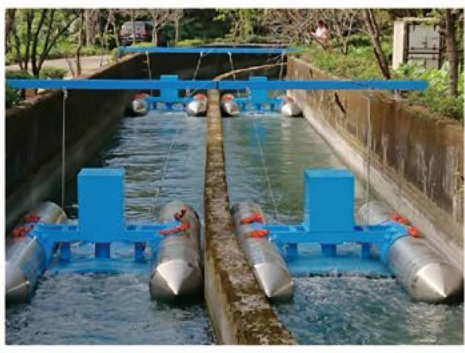


3. RS485 to Ethernet



4. RS485 to USB

Cases





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