

2023



ZHEJIANG ZHENGXI ELECTRIC GROUP CO., LTD

Company introduction and publicity >>

integrity

faith



Power
industry
specialist





Company introduction

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam

-
- Company Introduction
 - Company Introduction
 - Company Introduction

COMPANY PROFILE

Zhejiang Zhengxi Electric Group Co.,Ltd specialized in the research and development, production and sales of high and low voltage power products such as voltage stabilizers, transformers, voltage regulators, frequency inverters, soft starters, high and low voltage distribution cabinets.

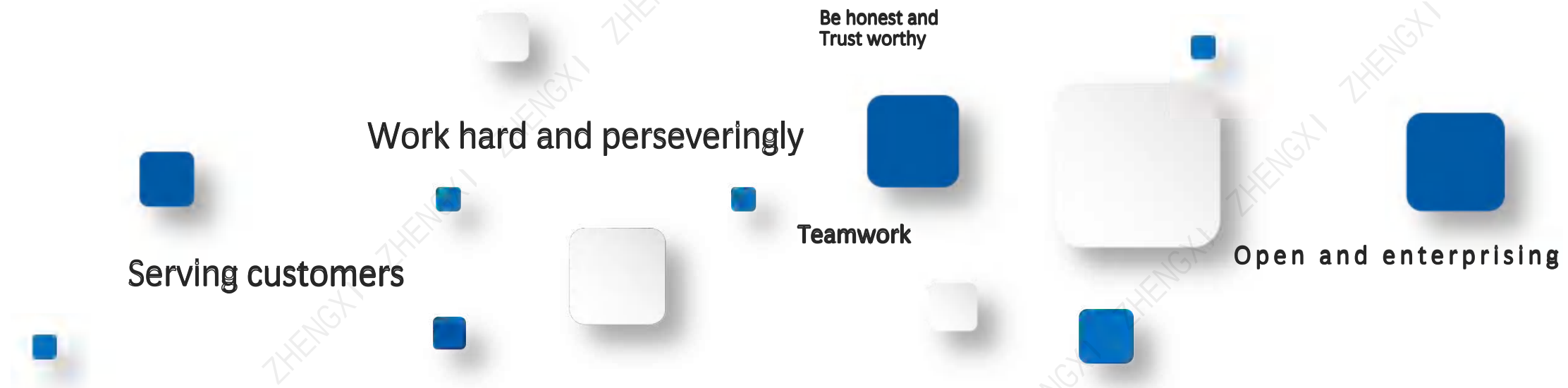
Zhengxi has professional technical R&D teams to support the development of circuit board source program technology and appearance mold design and development. So far, our company has collaborated with more than 10,000 well-known domestic enterprises and universities. Our products are widely exported to Southeast Asia and Africa, earning global recognition.

Zhengxi takes "providing customized product solutions to make electricity use easier" as its mission and is willing to become a leading enterprise with vitality, continuous innovation, long-term responsibility, and a long-lasting foundation! Our company was awarded the title of Zhejiang Science and Technology Enterprise in 2019, and has obtained IEC, CE, ISO9001 and ISO14001 certification. We support OEM/ODM, provide appearance proofing, and offer source program development and design.

Zhengxi Group – Your reliable partner in power stability

Corporate culture

BUSINESS RECRUITMENT



Integrity casts quality and becomes a benchmark enterprise in the power supply industry

Enterprise mission: focus on the challenges and pressures of customers, provide competitive power solutions and services, and continue to create maximum value for customers.

Corporate responsibility: Create value for customers, build a successful stage for employees, and make due contributions to society.

Honor Moment

BUSINESS RECRUITMENT



Zhengxi passed ISO-9001 international quality system certification, EU CE certification, SGS certification, Alibaba Onsitecheck field certification, African Union SONCAP certification, the Ministry of Information Industry telecommunications equipment network access license and other certifications



2023

Focus On Power Production

**16 YEARS
OF EXPERIENCE, FOCUSED
ON ONE THING**

CORPORATE BROCHURE

HIGH-END QUALITY POWER SUPPLY



Product introduction

Lorem ipsum dolor sit amet. consectetuer dipiscing elit. sed diam nonummy nibheuismod tincidunt ut laoreet dolore magna aliquam

-
- Product Introduction • Product Introduction • Product Introduction

Product Catalog

BUSINESS RECRUITMENT

GW Serieshigh-Frequencyonline UPS -----9

- 1. Single in, single out 1~3KVA-----10
- 2. Single in, single out 6~10KVA-----11
- 3. Three-in, single-out 10~20KVA-----12
- 4. Three in and three out 10~40KVA-----13
- 5. Three in and three out 60~80KVA-----14

GE Series Power Frequency Online UPS -----15

- 1. Single in, single out 6~20KVA -----16
- 2.Three in and one out10~40KVA-----17
- 3.Three in and three out 10-20KVA-----18
- 4.Three in and three out 160-500KVA-----19

GR SeriesRack Mounted UPS -----20

- 1. Single in, single out, 1~3KVA-----21
- 2. Single in, single out 6~10KVA-----22
- 3. Three-in, single-out 10~20KVA-----23

GM Series Modular UPS -----24

- 1.Three in and three out300~600KVA-----25

GM Meries Modular UPS -----26

- 1.Single in, single out6~10KVA-----27

Maintenance-free Valve-controlled Lead-acid Battery -----28

- 1.Battery-----29
- 2.Battery cabinet-----30

Solar Inverter-----31

- 1.High frequency off grid inverter control integrated machine PVI series (1KW-5KW)-----32
- 2.Highfrequencyphotovoltaic series gridconnectedinverter PH50TM series (4KW-15KW)-----33
- 3.Highfrequencyoffgridintegratedinverter PH1800 Plus series (2KW-5.5KW)-----34

GW SERIES

HIGH FREQUENCY ONLINE UPS

- SINGLE IN, SINGLE OUT
- THREE IN, ONE OUT
- THREE IN THREE

- CONVEY THE TRUE MEANING WITH THE BRAND
- BRAND TRANSMISSION TEMPERATURE, SIMPLE TRUE MEANING, HEART INCUBATION,
- LET CUSTOMERS REST ASSURED, LET PEOPLE CHOOSE

Advanced DSP Digital Control Technology

GW series adopts advanced DSP digital control technology, while GW series adopts digitally controlled active power factor correction technology to improve product performance, it greatly meets the user's demand for power supply products (PFC), so that the input power factor is close to 1, so as to avoid the practicability, efficiency, reliability and safety requirements of the power grid environment. Even if it is polluted, achieve the purpose of saving energy and reducing system costs. The electrical environment is relatively harsh, which can also ensure the stable and continuous operation of the equipment.

Six Performance Benefits

01

Zero conversion

Zero conversion time between mains mode and battery mode to ensure the continuous operation of users' services

03

Centralized monitoring

Monitor up to 1000 UPSs simultaneously

05

compatibility

Support multi-language, multi-operating system, multi-communication and multi-network protocol

02

Mobile apps

Support mobile phone smart monitoring card, You can monitor various data in real time through the mobile APP

04

security

Support SMTP/SSL network encryption protocol to ensure network security

06

Extensibility

Smart slots offer a wealth of expandable features

DSP芯片



GW11 High-frequency online UPS single in, single out 1~3KVA

Application field:

- ★ Transportation, power, medical, venues and other important institutions power protection
- ★ Large IDC center
- ★ Financial Securities Data Center
- ★ Communication network management center

Product Description:

Goter Power High Frequency Online UPS applies advanced DSP digital control technology, equipped with active input power factor correction (PFC) technology, and zero switching of power supply mode. Intelligent protection systems such as frequency adaptive systems courteously ensure the continuity and stability of key power equipment, and are compact and easy to use.



Product Features:

Advanced DSP digital control technology

Goter Power the high frequency online UPS adopts advanced DSP digital control technology to improve product performance and greatly meet the needs of users for marketability, efficiency, reliability and safety of power supply products. Even if the electricity environment is harsh, it can ensure the stable and continuous operation of the equipment.

Green environmental protection

This product is a green environmental protection product, in line with the national electronic information products pollution control management measures, to ensure that the product under normal use, will not cause harm to the environment and personal injury that the product will not cause harm to the environment and people under normal use.

Ultra-wide input voltage range

Goter Power the high frequency online UPS provides users with an ultra-wide input voltage range, and can also work stably in the mains power supply mode in the harsh grid environment, reducing the number of battery discharges, extending the service life of the battery, and saving the cost of use.

Active Input Power Factor Correction (PFC)

Goter power the high frequency online UPS adopts digitally controlled active power factor correction technology (PFC), so that the input power factor is close to 1, so as to avoid the pollution of the grid environment, achieve the purpose of energy saving and reduce the system cost.

The output power factor is 0.9-1

Adapt to the characteristics of most current electrical equipment to achieve stronger load capacity.

Frequency adaptive system

Users can set it to a fixed 50Hz or 60Hz system, or set it to automatically identify and adapt to the 50Hz/60Hz power system to meet the requirements of different power systems.

Wide input frequency range

The wide input frequency range enables UPS to adapt to different power supply equipment such as generators, effectively isolate the bad power generated by power supply equipment, and provide pure, safe and stable power for the load.

Powerful extensibility features

The smart slot provides various expandable functions. You can select a USB card, AS400 card, CMC monitoring card, SNMP card, RS485 card, and EMD environment monitoring card.

Four Advanced Technologies:

- ★ The latest switching technology is used in the PFC boost to reduce PFC IGBT voltage spikes and switching losses, and improve the UPS's ability to withstand transient high voltages such as lightning strikes.
- ★ Using the latest three-level inverter architecture, the problem that half bridge inverter circuit cannot carry half wave load and inductive load is solved.
- ★ The digital inverter control is realized, and the voltage and current double loop control is adopted to improve the dynamic response speed and the output performance.
- ★ PFC circuit adopts frequency doubling control, and effectively improves the efficiency of the whole machine.

Technical Parameters:

Model		GW11-1KVA		GW11-2KVA		GW11-3KVA	
Rated power		1KVA/0.9KW		2KVA/1.8KW		3KAV/2.7KW	
Input	Voltage range	90~285VacSingle-phase two-wire + grounding wire					
	Operating frequency range	40-70HZ(adjustable)					
	Enter the power factor	≥0.99					
Exportation	Rated voltage and accuracy	220Vac(±2%)Single-phase two-wire + grounding wire					
	Output frequency	46-54HZ synchronous mains; 50Hz (between 40-46HZ and 54-60HZ); 50Hz (battery)					
	Rated current	4.5A		9.1A		13.6A	
	Output power factor	0.9					
	Output harmonics	≤4%					
	Crest factor	3:1					
	Output overload	105%±5%< load ≤125%±5%: turn to bypass output and alarm after 50 seconds; 125%±5% <Load ≤150%±5%: Turn the bypass output and alarm after 25 seconds; Load > 150%±5%: 300 After milliseconds, the bypass output and alarm					
	Mains one-to-one battery conversion time	0ms					
efficiency		≥85%					
Battery	Rated voltage	24Vdc/36Vdc/48Vdc		24Vdc/36Vdc/48Vdc		24Vdc/36Vdc/48Vdc	
	Number of battery units	2/3/4		4/6/8		4/6/8	
	Charging current	1A	6.5A	Standard machine: 1A, long machine: 5.5A			
Machine size (length x width x height) mm		350*144*230		425*190*328			
Machine weight		9.5kg	6kg	18.5kg	10kg	23.5kg	11kg
Operating ambient temperature		0°C~40°C					
Operating relative humidity		20% ~95%					
noises		≤50dB					

GW11 High-frequency online UPS singlein, single out 6~10KVA

Application field:

Transportation, electric power, medical, venue and other important institutions power protection large-scale IDC center Financial Securities Data Center Communication network management center

Product Description:

Goode Power High Frequency Online UPS applies advanced DSP digital control technology, equipped with active input power factor correction (PFC) technology, and zero switching of power supply mode. Intelligent protection systems such as frequency adaptive systems courteously ensure the continuity and stability of key power equipment, and are compact and easy to use.



Product Characteristics:

Advanced DSP digital control technology

Goodtech's high-frequency online UPS adopts advanced DSP digital control technology, which not only improves product performance, but also greatly meets the needs of users for the marketability, efficiency, reliability and safety of power supply products. Even if the electrical environment is harsh, it can ensure the stable and continuous operation of the equipment.

The output power factor is 0.9-1

Adapt to the characteristics of most current electrical equipment to achieve stronger load capacity.

Green environmental protection

This product is a green environmental protection product, which conforms to the national management measures for pollution control of electronic information products and ensures that the product will not cause harm to the environment and people under normal use.

Ultra-wide input voltage range

Goodtech high-frequency online UPS provides users with an ultra-wide input voltage range, and can also work stably in the mains power supply mode in the harsh power grid environment, reducing the number of battery discharges, extending the service life of the battery, and saving the cost of use.

Active Input Power Factor Correction (PFC)

Goode Power High Frequency Online UPS adopts digitally controlled active power factor correction technology (PFC) to make the input power factor close to 1 to avoid pollution of the power grid environment, achieve energy saving and reduce system cost.

Powerful extensibility features

The smart slot provides a wealth of expandable functions, including USB card, AS400 card, CMC monitoring card, SNMP card, RS485 card, EMD environmental monitoring card.

Frequency adaptive system

Users can set it to a fixed 50Hz or 60Hz system, or set it to automatically identify and adapt to the 50Hz/60Hz power system to meet the requirements of different power systems.

Wide input frequency range

The wide input frequency range enables UPS to adapt to different power supply equipment such as generators, effectively isolate the bad power generated by power supply equipment, and provide pure, safe and stable power for the load.

Technical Parameters:

Model		GW11-6KVA	GW11-10KVA	
rated power		6KVA/5.4KW		10KVA/9KW
Input	Voltage range	120-275Vac single-phase two wire+grounding wire		
	Operating frequency range	440-70HZ (adjustable)		
	Input power factor	≥0.99		
Exportation	Rated voltage and accuracy	220Vac (I ± 1%) single-phase two wire+grounding wire		
	Frequency	46-54HZ synchronous mains power; 50Hz (between 40-46Hz and 54-60Hz for mains power); 50Hz (battery)		
	Rated current	27A		45A
	Output power factor	0.9		
	Output harmonic	≤3%		
	crest factor	3:1		
Battery	over load	105% ± 5% < load ≤ 125% ± 5%: After 1 minute, switch to bypass output and alarm; 125% ± 5% < load ≤ 135% ± 5%: switch to bypass output and alarm after 30 seconds; Load>135% ± 5%: After 300 milliseconds, turn to>92% bypass output and alarm		
	Conversion time from mains to battery	0ms		
	efficiency	> 92%		
	rated voltage	192Vdc		
	Number of battery sections	16		
	Charging current	Standard machine: 1A, long machine: 5.5A		
Machine size (length x width x height) mm		425*190*328	53*260*560	533*260*501
machine weight		12.2kg	55kg	21kg
Ambient Temperature		0°C~40°C		
Working relative humidity		20% ~95%		
noise		≤55dB		
Machine size (length x width x height) mm		533*260*560	53*260*560	533*260*501
machine weight		62kg	21kg	55kg

Four Advanced technologies:

The latest switching technology is adopted in PFC boosting, which reduces PFCIGBT voltage spikes and switching losses , and improves the withstand voltage ability of UPS to withstand instantaneous high voltages such as lightning strikes. The latest three-level inverter architecture is adopted to solve the problem that the half-bridge inverter circuit cannot carry half-wave load and inductive load.

Realize the digitalization of inverter control, use voltage and current double loop control, improve dynamic response speed, and improve output performance.

The PFC circuit adopts frequency doubling control, which effectively improves the efficiency of the whole machine.

GW31 High-frequency online UPS with three inputs and one output of 10-20KVA

Application field:

Power supply protection for important institutions such as transportation, electricity, healthcare, and venues Large IDC centers
Financial Securities Data Center
Communication Network Management Center

Product Description:

Product Description:
The high-frequency online UPS of Gute Power Supply is equipped with advanced DSP digital control technology, active input power factor correction (PFC) technology, and zero switching of power supply mode. Intelligent protection systems such as frequency adaptive systems ensure the continuity and stability of critical power equipment with courtesy, and are compact and easy to use.



Product Characteristics:

⚡ Advanced DSP digital control technology

Goodtech's high-frequency online UPS adopts advanced DSP digital control technology, which not only improves product performance, but also greatly meets the needs of users for the marketability, efficiency, reliability and safety of power supply products. Even if the electrical environment is harsh, it can ensure the stable and continuous operation of the equipment.

⚡ The output power factor is 0.9-1

Adapt to the characteristics of most current electrical equipment to achieve stronger load capacity.

⚡ Green environmental protection

This product is a green environmental protection product, which conforms to the national management measures for pollution control of electronic information products and ensures that the product will not cause harm to the environment and people under normal use.

⚡ Ultra wide input voltage range

The high-frequency online UPS of Gute Power Supply provides users with an ultra wide input voltage range, which can work stably in the mains power supply mode even in harsh power grid environments, reducing battery discharge times, extending battery life, and saving usage costs.

⚡ Active Input Power Factor Correction (PFC)

The high-frequency online UPS of Gute Power Supply adopts digital control of active power factor correction (PFC) technology, making the input power factor close to 1, in order to avoid pollution of the power grid environment, achieve energy conservation and reduce system costs.

⚡ Powerful scalability features

The smart slot provides a rich range of expandable functions, including USB card, AS400 card, CMC monitoring card, SNMP card, RS485 card, and EMD environment monitoring card.

⚡ Frequency adaptive system

Users can set it to a fixed 50Hz or 60Hz system, or set it to automatically recognize and adapt to 50Hz/60Hz power systems to meet the requirements of different power systems.

⚡ Wide input frequency range

The wide input frequency range enables UPS to adapt to different power supply equipment such as generators, effectively isolating the harmful electricity generated by the power supply equipment, and providing pure, safe, and stable electricity for the load.

Four advanced technologies:

The latest switching technology is adopted in PFC boosting, which reduces PFCIGBT voltage spikes and switching losses, and improves the withstand voltage ability of UPS to withstand instantaneous high voltages such as lightning strikes. The latest three-level inverter architecture is adopted to solve the problem that the half-bridge inverter circuit cannot carry half-wave load and inductive load.

Realize the digitalization of inverter control, use voltage and current double loop control, improve dynamic response speed, and improve output performance.

The PFC circuit adopts frequency doubling control, which effectively improves the efficiency of the whole machine.

Technical Parameters:

Model		GW31-10KVA	GW31-15KVA	GW31-20KVA
rated power		10KVA/9KW	15KVA/13.5KW	20KVA/18KW
Input	Voltage range	207~475Vac three-phase four wire+grounding wire		
	Operating frequency range	40-70HZ (adjustable)		
	Input power factor	≥0.99		
Exportation	Rated voltage and accuracy	220Vac (I ± 1%) single-phase two wire+grounding wire		
	Frequency	46-54HZ synchronous mains power; 50Hz (between 40-46Hz and 54-60Hz for mains power); 50Hz (battery)		
	Rated current	45A	68A	91A
	Output power factor	0.9		
	Output harmonic	≤3%		
	crest factor	3:1		
Battery	over load	105% ± 5% < load < 125% ± 5%: After 1 minute, switch to bypass output and alarm; 125% ± 5% < load < 135% ± 5%: switch to bypass output and alarm after 30 seconds; Load > 135% ± 5%: After 300 seconds, switch to bypass output and alarm		
	Conversion time from mains to battery	0ms		
	efficiency	92%		
	rated voltage	192Vdc		
	Number of battery sections	1/16/1900		
	Charging current	5.5A		
	Machine size (length × width × height) mm	533*260*501		
	machine weight	23kg	32kg	33kg
	Ambient Temperature	0°C~40°C		
	Working relative humidity	20% ~95%		
noise		≤60dB		

GW33 High-frequency online UPS threein and three out 10~40KVA

Application field:

Power supply protection for important institutions such as transportation, electricity, healthcare, and venues Large IDC centers
Financial Securities Data Center

★ Communication Network Management Center

Product Description:

The high-frequency online UPS of Gute Power Supply is equipped with advanced DSP digital control technology, active input power factor correction (PFC) technology, and zero switching of power supply mode. Intelligent protection systems such as frequency adaptive systems ensure the continuity and stability of critical power equipment with courtesy, and are compact and easy to use.



Product Characteristics:

⚡ Advanced DSP digital control technology

The high-frequency online UPS of Gute Power adopts advanced DSP digital control technology, which not only improves product performance, but also greatly meets users' needs for the marketability, efficiency, reliability, and safety of power supply products. Even in harsh electrical environments, it can ensure stable and continuous operation of the equipment.

⚡ The output power factor is 0.9-1

Adapt to the characteristics of most current electrical equipment and achieve stronger load capacity.

⚡ Green and environmentally friendly

This product is a green and environmentally friendly product that complies with the national electronic information product pollution control management measures, ensuring that the product will not cause harm to the environment and personal health under normal use.

Four Advanced technologies:

The latest switching technology is adopted in the PFC boost, reducing the voltage spikes and switching losses of PFCIGBT, and improving the withstand voltage capability of UPS to withstand transient high voltages such as lightning strikes. Adopting the latest three-level inverter architecture, it solves the problem of half bridge inverter circuits not being able to carry half wave and inductive loads.

Realize digitization of inverter control, using voltage and current dual loop control to improve dynamic response speed and output performance.

The PFC circuit adopts frequency doubling control, effectively improving the overall efficiency of the machine.

⚡ Ultra wide input voltage range

The high-frequency online UPS of Gute Power Supply provides users with an ultra wide input voltage range, which can work stably in the mains power supply mode even in harsh power grid environments, reducing battery discharge times, extending battery life, and saving usage costs.

⚡ Active Input Power Factor Correction (PFC)

The high-frequency online UPS of Gute Power Supply adopts digital control of active power factor correction (PFC) technology, making the input power factor close to 1, in order to avoid pollution of the power grid environment, achieve energy conservation and reduce system costs.

⚡ Powerful scalability features

The smart slot provides a rich range of expandable functions, including USB card, AS400 card, CMC monitoring card, SNMP card, RS485 card, and EMD environment monitoring card.

⚡ Frequency adaptive system

Users can set it to a fixed 50Hz or 60Hz system, or set it to automatically recognize and adapt to 50Hz/60Hz power systems to meet the requirements of different power systems.

⚡ Wide input frequency range

The wide input frequency range enables UPS to adapt to different power supply equipment such as generators, effectively isolating the harmful electricity generated by the power supply equipment, and providing pure, safe, and stable electricity for the load.

Technical Parameters:

Model		GW33-10KVA		GW33-20KVA		GW33-30KVA		GW33-40KVA	
rated power		10KVA/9KW		20KVA/18KW		30KAV/27KW		40KVA/36KW	
Input	Voltage range	207~475Vac three-phase four wire+grounding wire							
	Operating frequency range	40-70HZ (adjustable)							
	nput power factor	>0.99							
Exportation	Rated voltage and accuracy	380Vac (I ± 1%) three-phase four wire+grounding wire							
	Frequency	46-54HZ synchronous mains power; 50Hz (between 40-46HZ and 54-60HZ for mains power); 50Hz (battery)							
	Rated current	15A		30A		45A		61A	
	Output power factor	0.9							
	Output harmonic crest factor	W3% 3:1							
	over load	1105% ± 5% < Load W125% ± 5%: After 1 minute, switch to bypass output and alarm; 125% ± 5% < load W135% ± 5%: switch to bypass output and alarm after 30 seconds; Load > 135% ± 5%: After 300 milliseconds, switch to bypass output and alarm							
	Conversion time from mains to battery	0ms							
Battery	efficiency	>92%				>91%			
	rated voltage	192Vdc				±192Vdc			
	Number of battery sections	1/16/1900				32			
	Charging current	5.5A	1A	7.5A	1A	5.5A			
Machine size (length x width x height) mm		533*260*501	560*260*717	710*260*717		710*260*717			
machine weight		26 kg	72kg	57.5kg	98kg	58.5kg		62kg	
Ambient Temperature		0°C~40°C							
Working relative humidity		20% ~95%							
noise		<60dB							
altitude		<1500m							
Storage temperature		-25-55°C							

- ★ Power supply protection for important institutions such as transportation, electricity, healthcare, and venues
- ★ Large IDC centers
- ★ Financial Securities Data Center
- ★ Communication Network Management Center

The high-frequency online UPS of Gute Power Supply is equipped with advanced DSP digital control technology, active input power factor correction (PFC) technology, and zero switching of power supply mode. Intelligent protection systems such as frequency adaptive systems ensure the continuity and stability of critical power equipment with courtesy, and are compact and easy to use.

⚡ Advanced DSP digital control technology

The high-frequency online UPS of Gute Power adopts advanced DSP digital control technology, which not only improves product performance, but also greatly meets users' needs for the marketability, efficiency, reliability, and safety of power supply products. Even in harsh electrical environments, it can ensure stable and continuous operation of the equipment.

⚡ The output power factor is 0.9-1

Adapt to the characteristics of most current electrical equipment and achieve stronger load capacity.

⚡ Green and environmentally friendly

This product is a green and environmentally friendly product that complies with the national electronic information product pollution control management measures, ensuring that the product will not cause harm to the environment and personal health under normal use.

Four Advanced technologies:

The latest switching technology is adopted in the PFC boost, reducing the voltage spikes and switching losses of PFCIGBT, and improving the withstand voltage capability of UPS to withstand transient high voltages such as lightning strikes. Adopting the latest three-level inverter architecture, it solves the problem of half bridge inverter circuits not being able to carry half wave and inductive loads.

Realize digitization of inverter control, using voltage and current dual loop control to improve dynamic response speed and output performance.

The PFC circuit adopts frequency doubling control, effectively improving the overall efficiency of the machine.

	Model	GW33-60KVA	GW33-80KVA
Input	rated power	60KAV/54KW	80KAV/72KW
	Voltage range	208~478Vac three-phase four w	
	Operating frequency range	45~55Hz at 50Hz/54~66Hz at 60Hz (Adaptive)	
	Input power factor	>0.99	
Exportation	Rated voltage and accuracy	380/400/415Vac (± 1%) three-phase four wire+connection Ground wire	
	Frequency	Synchronize with input; When the mains frequency exceeds the maximum ± 10%, Output frequency 50 (± 0.2%) Hz; 50/60 ± 0.2% Hz (electrical Pool)	
	Rated current	91A	121A
	Output power factor	0.9	
	Output harmonic	W2% linear load; W5% nonlinear l	
	crest factor	3:1	
	over load	Load<110%, 60 minutes; Load W125%: I0min; Load W150%: Imin; load^150% Immediate shutdown	
	Conversion time from mains to battery	0ms	
Battery	efficiency	Normal mode > 94.5%	
	rated voltage	Default ± 192Vdc	
	Number of battery sections	32~48节	
	Charging current	20A max	
	Machine size (length x width x height) mm	865*300*960	
	machine weight	85.5kg	
	Ambient Temperature	0°C~40°C	
	Working relative humidity	0-95% non condensation	
	noise	<60dB	
	altitude	<1500m	
Storage temperature	-25-55°C		

GE series

Power frequency online UPS

Extraordinary innovation and stable operation

Power frequency UPS replaces traditional analog circuits with advanced digital circuit systems, achieving extraordinary innovation. In digital circuit mode, high-speed microcontrollers and programmable logic devices improve circuit control, parameter setting, and operation management. Self-test and self-detection are more powerful. The whole sampling technology is not only beneficial to self-test and fault analysis of all independent circuit connections on the circuit board, but also can be digitally converted into an extremely pure and stable sine wave voltage to ensure ultra-stable operation of the system.

Six major performance advantages

01 Superior hardware configuration

Unique standard input/output transformer, Isolating current from input interference can greatly improve the quality of electricity and ensure the safety and efficiency of industrial production equipment

02 More powerful overload capacity

Using digital signal processing technology to ensure fast and flexible measurement data, thereby generating fast control variables, Ensure real-time control of the charger and inverter

03 Advantages of equipment component design

Each component can withstand a higher rated power and has a longer lifespan, Ensure the safety and durability of user device operation process.

04 Has strong adaptability

Used in harsh industrial environments, The protection level has reached IPS4, Has high reliability and adaptability to harsh industrial outdoor environments

05 Convenient front-end maintenance

The power frequency UPS design has convenient front-end maintenance, high reliability and maintainability.

06 Powerful overload capability

When the device is overloaded, the powerful overload capability greatly increases the safety of the system.

Solving the Eight Major Voltage Problems



Mains power outage



power sags



Frequency fluctuations



Lightning surge protection



Electronic interference



overvoltage

GE11 power frequency online UPS single input and single output 6-20KVA

Application field:

- ★ Industrial application protection
- ★ Power supply protection for important institutions such as transportation, electricity, healthcare, and venues
- ★ Small data rooms
- ★ Communication Network Management Center
- ★ Office automation
- ★ Experimental instruments and equipment

Product Description:

Adopting a dual transformation topology architecture, the input is equipped with a harmonic suppressor, and the inverter is equipped with SPWM pulse width modulation technology and IGBT power module. The output is equipped with an isolation transformer to provide a stable frequency, stable voltage, pure and low distortion sine wave power supply for the load. It has strong load capacity, good compatibility, and other characteristics, meeting the high reliability, high stability, and high quality requirements of uninterrupted power supply in various industries.



Product Characteristics:

⚡ Advanced design

Online dual transformation, completely isolating the impact of various power grid pollution on the load caused by the mains or generator.

Output isolation transformer with strong impact load capacity

⚡ Strong overload capacity

Super strong output overload and short circuit capability, ensuring system stability and safety in extreme states

⚡ Input surge protection design

Rectifier input anti surge board design, strong adaptability to the power grid

⚡ Strong environmental adaptability

Wide voltage input range, avoiding frequent switching to battery power supply mode, wide input frequency range, stable connection to various fuel generators, suitable for harsh power grid environments

⚡ Intelligent fan speed regulation

Automatically adjust the fan speed based on internal temperature and load size through software sampling and calculation, effectively reducing noise; Extend the service life of the fan and save energy

⚡ Comprehensive protection measures

Power-on self-diagnosis function, equipped with complete protection devices, providing output overload, short circuit, inverter over temperature, battery undervoltage, battery overcharging, surge protection, and dual protection of software and hardware; Multifunctional protection and warning, ensuring system stability

⚡ Flexible network monitoring management

Standard R232 communication interface, optional dry contact, R485, SNMP network adapter, flexible networking, real-time management of UPS operation

⚡ Rich selection of accessories

Dry contact/R485/SNMP/input isolation transformer/bypass isolation transformer

⚡ LCD+LED display

LCD+LED display, real-time display and recording of UPS working status, parameter information, etc., convenient for user management

⚡ DC start function

It can be started directly from the battery, making it convenient for users to use

Technical parameters:

Model		GE11-6KVA	GE11-10KVA	GE11-15KVA	GE11-20KVA
Rated capacity (KVA/KW)		6/4.8	10/8	15/12	20/16
Input specifications					
Main input	Rated input voltage (Vac)	220/230			
	Input voltage range (Vac)	160~275			
	Phase number	Single phase three wire (1L+N+PE)			
	Input frequency range (Hz)	50 (60) +10%			
Bypass input	Input power factor	>0.95 (with filter)			
	Rated input voltage (Vac)	220/230			
	Input voltage range (Vac)	160~275			
	Phase number	Single phase three wire (L+N+PE)			
	Input frequency range (Hz)	50 (60) ±5%			
Output specifications					
Voltage (Vac)		220±1%/230±1%			
Output Power Factor		0.8			
Frequency (Hz)		50(60)			
wave form		Sine wave THDV less than 2% (pure linear load)			
Switching time (ms)		0 voltage (Vac)			
Efficiency		>85%		92%	
Overload capacity					
battery					
Battery voltage (Vac)		100%~110%: long-term operation; 110%~125%: 20s to bypass;> 150%: Is to bypass 92			
environment					
Working temperature (° C)		-10~40			
Storage temperature (° C)		-25 ^ 55 (excluding batteries)			
relative humidity		0-95% (without frost)			
Working altitude		<1500m, if exceeding, according to GB/T3859 2. Regulate the use of derating			
Noise (dB)		<55 (1 meter away from the equipment)			
other characteristics					
caution function		Output overload, abnormal power supply, UPS failure, battery undervoltage, etc			
Protection function		Output short circuit, overload, over temperature, battery undervoltage, output undervoltage			
communication function		Standard configuration: RS232 optional: RS485/SNMP/dry contact			
Mechanical characteristics					
Size (W * Hmm)		400*750*1010			
Net weight (kg)		67	100	120	220

GE31 powerfrequency online UPS threeinand one out 10~40KVA

Application field:

- ★ Industrialapplicationprotection
- ★ Powersupplyprotectionforimportantinstitutionssuchas transportation,electricity,healthcare,andvenues
- ★ Smalldata
- ★ Communication NetworkManagement Center
- ★ Officeautomation★ Experimentalinstrumentsandequipment

Product Description:

Adopting a dual transformation topology architecture, the input is equipped with a harmonic suppressor, and the inverter is equipped with SPWM pulse width modulation technology and IGBT power module. The output is equipped with an isolation transformer to provide a stable frequency and voltage regulation, zero thousand disturbances, and pure low distortion sine wave power supply for the load. It has strong load carrying capacity and good compatibility, meeting the high reliability, high stability, and high quality requirements of uninterrupted power supply in various industries.

Product Characteristics:

⚡ Advanced design

Online dual transformation, completely isolating the impact of various power grid pollution on the load caused by the mains or generator. Output isolation transformer with impact load capacity

⚡ Strong overload capacity

Super strong output overload and short circuit capability, ensuring system stability and safety in extreme states

⚡ Input surge protection design

Rectifier input anti surge board design, strong adaptability to the power grid

⚡ Strong environmental adaptability

Wide voltage input range, avoiding frequent switching to battery power supply mode, wide input frequency range, stable connection to various fuel generators, suitable for harsh power grid environments

⚡ Intelligent fan speed regulation

Automatically adjust the fan speed based on internal temperature and load size through software sampling and calculation, effectively reducing noise; Extend the service life of the fan and save energy

⚡ Comprehensive protection measures

Power-on self-diagnosis function, equipped with complete protection devices, providing output overload, short circuit, inverter over temperature, battery undervoltage, battery overcharging, surge protection, and dual protection of software and hardware; Multifunctional protection and warning, ensuring system stability

⚡ Flexible network monitoring management

Standard R232 communication interface, optional dry contact, R485, SNMP network adapter, flexible networking, real-time management of UPS operation

⚡ Rich selection of accessories

Dry contact/R485/SN M P/input isolation transformer/bypass isolation transformer

⚡ LCD+LED display

LCD+LED display, real-time display and recording of UPS working status, parameter information, etc., convenient for user management

⚡ DC start function

It can be started directly from the battery, making it convenient for users to use



Technical parameters:

Model		GE31-10KVA	GE31-15KVA	GE31-20KVA	GE31-25KVA	GE31-30KVA	GE31-40KVA
Rated capacity (KVA/KW)		10/8	15/12	20/16	25/20	30/24	40/32
Input specifications							
Main input	Rated input voltage (Vac)	380					
	Input voltage range (Vac)	304~456					
	Phase number	Three phase five wire (3L+N+PE)					
	Input frequency range (Hz)	50(60) ±10%					
	Input power factor	>0.95 (with filter)					
Bypass input	Rated input voltage (Vac)						
	Input voltage range (Vac)	160~275					
	Phase number	Single phase three wire (L+N+PE)					
	Input frequency range (Hz)	50 (60) ±5%					
Output specifications							
Voltage (Vac)		220±1%/230±1%					
Output Power Factor		0.8					
Frequency (Hz)		50(60)					
wave form		Sine wave THDV less than 2% (pure linear load)					
Switching time (ms)		0					
Efficiency		92%					
Overload capacity		105%~110%: 60min to bypass; 110%~125%: IOmin to bypass;> 125%: 10s to bypass					
battery							
Battery voltage (Vac)		192V		240V		384V	
environment							
Working temperature (° C)		-10~40					
Storage temperature (° C)		-25 ^ 55 (excluding batteries)					
relative humidity		0-95% (without frost)					
Working altitude		<1500m, if exceeding, according to GB/T3859 2. Regulate the use of derating					
Noise (dB)							
other characteristics							
caution function		Output overload, abnormal power supply, UPS failure, battery undervoltage, etc					
Protection function		Output short circuit, overload, over temperature, battery undervoltage, output undervoltage, lightning protection (optional)					
communication function		Standard configuration: RS232 optional: RS485/SNMP/dry contact					
Mechanical characteristics							
Size (W * Hmm)		400*750*1010					
Net weight (kg)		135	200	245	300	520	

GE33 powerfrequency online UPS with threeinputs and three outputs 10-120KVA

Application field:

- ★ Industrial application protection
- ★ Power supply protection for important institutions such as transportation, electricity, healthcare, and venues
- ★ Small data rooms
- ★ Communication Network Management Center
 - ★ Office Automation
- ★ Experimental instruments and equipment

Product Description:

The medium to high power three in three out power frequency dual conversion online intelligent fully digital UPS is a sine wave online high intelligent uninterrupted power supply product that integrates digitization, informatization, and networking. Equipped with a powerful information collection system, signal processing system, and comprehensive protection system, widely used in various electrical environments, with good personalized design and friendly human-machine dialogue function, advanced all digital technology is used to protect the safety of computers, communication instruments, motor facilities, medical and other electrical equipment, comprehensively solving power outages, voltage fluctuations/sudden changes, frequency changes, electronic noise Various power issues such as lightning strikes.

Product Characteristics:

Advanced design

Online dual transformation design completely isolates the impact of various grid pollution on the load caused by urban electricity or generators. Zero phase shift output isolation transformer reduces the impact of zero ground voltage and load harmonic current on the inverter, with three-phase Strong 100% unbalanced load capacity, with strong impact load capacity

HIGH POWER FACTOR

The output power factor reaches 0.9, with high load compatibility, and the input power factor reaches 0.95 (with input filter), with high energy utilization rate

DSP fully digital control

Dual DSP digital control for more stable and reliable system

Strong environmental adaptability

Wide input voltage range to avoid frequent switching to battery powered mode. Wide input frequency range, stable connection to various fuel generators for adaptation

Strong cutting ability

Super strong output overload and short circuit capability (5 seconds), ensuring system stability and safety in extreme states

Advanced Battery Management

Adopting advanced battery management technology, matching battery characteristics, with temperature compensation function, extending battery service life, predicting battery discharge time, and conducting regular battery self inspection. Unique battery switch state acquisition, detection, and control capabilities

N+X well connection redundant design

6 units can be directly connected, supporting different models of the same series for parallel operation. Online upgrades and expansion are carried out according to business development, maximizing investment protection

LBS synchronization function

Equipped with LBS synchronization function. Realize synchronization of two independent UPS systems to improve system reliability

Compatible with generator operation

Power walk in slow opening function reduces the impact current of system startup and reduces the demand for engine capacity during parallel operation

Intelligent fan speed regulation

By software sampling and calculation, the fan speed is automatically adjusted based on internal temperature and load size, effectively reducing noise and extending fan service life

DC start function

It can be started directly from the battery, making it convenient for users to use

Quasi modular design of power devices

The inverter adopts advanced SPWM technology based on IGBT. Complete power device, Including rectifier and static switches, as well as inverter modules, designed separately and on independent heat sinks, combined with the structural design of pre maintenance, which is conducive to installation and on-site maintenance



Incoming call self start

Equipped with memory to provide automatic power on function, which will automatically turn on when the battery discharge terminates and when the mains power is restored

Large screen LCD display

ARM controls powerful Chinese/English LCD (7-inch large screen for 30KVA and above) menu and data display, real-time recording of UPS working status and parameters Information, etc., convenient for user management

Comprehensive protection measures

Power on self diagnostic function. Short circuit, inverter overtemperature, battery undervoltage, battery overcharging, surge protection

Flexible power supply mode

In addition to the conventional modes, it provides joint power supply mode, ECO mode, automatic startup mode, and frequency conversion mode

Flexible network monitoring management

Standard R232/R485 communication interface, optional with SNMP/JBUS/MODBUS dry connection point card, flexible networking, and real-time management of UPS operation

Rich selection of accessories

Harmonic filter/bypass current sharing inductance/C-level lightning protection box. Parallel cable/Load synchronous (LBS) cable/SNMP/- JBUS/MODBUS/dry connection point card. Battery ground fault component/battery temperature sensor, UPS room signal

Technical parameters:

Model		GE33-10KVA	GE33-15KVA	GE33-20KVA	GE33-25KVA	GE33-30KVA	GE33-40KVA	GE33-50KVA	GE33-60KVA	GE33-80KVA	GE33-100KVA	GE33-120KVA
Rated capacity (KVA/KW)		10/8	15/12	20/16	25/20	30/24	40/32	50/40	60/48	80/64	100/80	120/96
Input specifications												
Main input	Rated input voltage (Vac)	380/400/415										
	Input voltage range (Vac)	±25%										
	Phase number	Three phase five wire (3L+N+PE)										
	Input frequency range (Hz)	45~65										
Bypass input	Input power factor	>0.95 (with filter)										
	Rated input voltage (Vac)	380/400/415										
	Input voltage range (Vac)	+10%, +15%, +20% （可设）； -10%, -20%, -30% （Can be set)										
	Phase number	Three phase five wire (3L+N+PE)										
	Input frequency range (Hz)	± 2% (± 0.5%,+1%, ± 2%, ± 3% can be set)										
Output specifications												
Voltage (Vac)		380/400/415 ±1%										
Output Power Factor		0.9										
Frequency (Hz)		Automatic tracking of bypass frequency										
wave form		Sine wave THDV less than 1% (pure linear load)										
Switching time (ms)		0										
Efficiency		≥91%			≥92%						≥93%	
Overload capacity		105%~110%: 60min turn bypass; 110%~125%: 10 min turn bypass; 125%"150%: 1 min turn bypass; > 150%: 10 s turn bypass										
battery												
Battery voltage (Vac)		384 (348 optional)				384 (348/360 optional)						
environment												
Working temperature (° C)		-10~40										
Storage temperature (° C)		-25^55 (without battery)										
relative humidity		0~95% (no condensation)										
Working altitude		< 1500m, exceeding it in accordance with GB/T3859. 2. Stipulate the use of derating										
Noise (dB)		<55 (1 meter from the device)									<60 (1 meter from the device)	
other characteristics												
caution function		Output overload, mains abnormality, UPS failure, battery undervoltage, etc										
Protection function		Output short circuit, overload, over temperature, battery undervoltage, output over under voltage, fan failure alarm										
communication function		Standard equipment: RS232/RS485 optional: SNMP/JBUS/MODBUS/dry contact										
Mechanical characteristics												
Size (W * Hmm)		400*750*1010						450*810*1160		600*700*1500		700*800*1700
Net weight (kg)		180	210	240	275		320	340	420	550	570	580

1
Unit
rru
pti
ble
po
we
r
sup
ply/
hig
h
fre
que
ncy
onli
n

GE33 powerfrequency online UPS with threeinputs and three outputs 160-500KVA

Application field:

- ★ Industrial application protection
- ★ Power supply protection for important institutions such as transportation, electricity, healthcare, and venues
- ★ Large IDC centers
- ★ Financial Securities Data Center
- ★ Communication Network Management Center

Product Description:

The ultra high-power power frequency conversion online UPS power supply is a new generation of three in and three out new product developed for the requirements of China's power grid environment and high-end electric fields. The system adopts an online dual transformation topology design, advanced DSP control technology, and the latest high-power IGB and SCR. Based on stable, reliable, and efficient all digital technology, it is designed as a large capacity, high-power pure sine wave intelligent UPS that integrates digitization, informatization, and networking.



Product Characteristics:

⚡ Advanced design

Online dual transformation design completely isolates the impact of various grid pollution on the load caused by urban electricity or generators. Zero phase shift output isolation transformer reduces the impact of zero ground voltage and load harmonic current on the inverter, with three-phase Strong 100% unbalanced load capacity, with strong impact load capacity

⚡ HIGH POWER FACTOR

The output power factor reaches 0.9, with high load compatibility, and the input power factor reaches 0.95 (with input filter), with high energy utilization rate

⚡ DSP fully digital control

Dual DSP digital control for more stable and reliable system

⚡ Strong environmental adaptability

Wide input voltage range to avoid frequent switching to battery powered mode. Wide input frequency range, stable connection to various fuel generators for adaptation

Harsh grid environment

⚡ Strong cutting ability

Super strong output overload and short circuit capability (5 seconds), ensuring system stability and safety in extreme states

⚡ Advanced Battery Management

Adopting advanced battery management technology, matching battery characteristics, with temperature compensation function, extending battery service life, predicting battery discharge time, and conducting regular battery self inspection. Unique battery switch state acquisition, detection, and control capabilities

⚡ N+X well connection redundant design

6 units can be directly connected, supporting different models of the same series for parallel operation. Online upgrades and expansion are carried out according to business development, maximizing investment protection

⚡ LBS synchronization function

Equipped with LBS synchronization function. Realize synchronization of two independent UPS systems to improve system reliability

⚡ Compatible with generator operation

Power walk in slow opening function reduces the impact current of system startup and reduces the demand for engine capacity during parallel operation

⚡ Intelligent fan speed regulation

By software sampling and calculation, the fan speed is automatically adjusted based on internal temperature and load size, effectively reducing noise and extending fan service life

⚡ DC start function

It can be started directly from the battery, making it convenient for users to use

⚡ Quasi modular design of power devices

The inverter adopts advanced SPWM technology based on IGBT. Complete power device, including rectifier and static switches, as well as inverter modules, designed separately and on independent heat sinks, combined with the structural design of pre maintenance, which is conducive to installation and on-site maintenance

⚡ Incoming call self start

Equipped with memory to provide automatic power on, it will automatically turn on when the battery discharge terminates and when the mains power is restored

⚡ Large screen LCD display

ARM controls powerful Chinese/English LCD (7-inch large screen for 30KVA and above) menu and data display, real-time recording of UPS working status and parameters Information, etc., convenient for user management

⚡ Comprehensive protection measures

Power on self diagnostic function. Short circuit, inverter overtemperature, battery undervoltage, battery overcharging, surge protection

⚡ Flexible power supply mode

In addition to the conventional modes, it provides joint power supply mode, ECO mode, automatic startup mode, and frequency conversion mode

⚡ Flexible network monitoring management

Standard R232/R485 communication interface, optional with SNMP/JBUS/MODBUS dry connection point card, flexible networking, and real-time management of UPS operation

⚡ Rich selection of accessories

Harmonic filter/bypass current sharing inductance/C-level lightning protection box. Parallel cable/Load synchronous (LBS) cable/SNMP/-JBUS/MODBUS/dry connection point card. Battery ground fault component/battery temperature sensor, UPS room signal

Technical parameters:

Model		GE33-160KVA	GE33-200KVA	GE33-300KVA	GE33-400KVA	GE33-500KVA
Rated capacity (KVA/KW)		160/128	200/160	300/240	400/320	500/400
Input specifications						
Main input	Rated input voltage (Vac)	380/400/415				
	Input voltage range (Vac)	±25%				
	Phase number	Three-phase five-wire (3L+N+PE)				
	Input frequency range (Hz)	45~65				
Bypass input	Input power factor	10A 95 (plus filter)				
	Rated input voltage (Vac)	380/400/415				
	Input voltage range (Vac)	+10%, +15%, +20% （可设） ； -10%, -20%, -30% (Optional)				
	Phase number	Three-phase five-wire (3L+N+PE)				
	Input frequency range (Hz)	±2% （±0. 5%, +1%, ±2%, ±3% available）				
Output specifications						
Voltage (Vac)		380/400/415 ±1%				
Output Power Factor		0.9				
Frequency (Hz)		Automatic tracking of bypass frequency				
wave form		Sine wave THDV less than 1% (pure linear load)				
Switching time (ms)		0				
Efficiency		≥92%		≥95%		
Overload capacity		105%~110%: 60min turn bypass; 110%~125%: 10 min turn bypass; 125%~150%: 1 min turn bypass; > 150%: 10 s turn bypass				
battery						
Battery voltage (Vac)		(Standard 384) / (396/408 customizable)				
environment						
Working temperature (° C))		-10~40				
Storage temperature (° C)		-25^55(without battery)				
relative humidity		0~95% (No frost)				
Working altitude		<1500m, if exceeding, according to GB/T3859 2. Regulate the use of derating				
Noise (dB)		<65		<70		<75
other characteristics						
caution function		Output overload, abnormal power supply, UPS failure, battery undervoltage, etc				
Protection function		Output short circuit, overload, over temperature, battery undervoltage, output undervoltage, fan fault alarm				
communication function		Standard configuration: RS232/RS485 optional: SNMP/JBUS/MODBUS/dry contact				
Mechanical characteristics						
Size (W * Hmm)		700*800*1700		840*1035*1800	Customized size	
Net weight (kg)		1200(6P)/1750(12P)	1400(6P)/1880(12P)	1750(6P)/2550(12P)	2000(6P)/3000(12P)	3600(12P)

GR series

Rack mounted UPS

Well connection redundancy, stable operation, and high reliability

In rack mounted modular UPS, the power modules are parallel redundant, and each module is equipped with input and output fuses and input and output relays. If any module fails, it does not affect the overall system operation.

The rack modular UPS inherits the achievements of traditional UPS technology in terms of power device technology and manufacturing process. In terms of system architecture, Based on the parallel connection of multiple modules, it not only achieves hot swapping of system modules, but also better handles the relationship between system module operation, mutual cooperation, and stable conversion.

Six major performance advantages

01

Null transformation

Zero conversion time between mains mode and battery mode to ensure continuous operation of user business

02

Mobile applications

Support for mobile intelligent monitoring cards, Real time monitoring of various data through mobile apps

03

Sine wave power output

It can output a sine wave power supply in both mains mode and battery mode, Provide the best power guarantee for users' devices

04

With bypass protection function

When the load equipment requires that the voltage should not be too high, The bypass protection function of the rack mounted power supply can provide high voltage protection, thereby protecting the customer's load equipment from the danger of high voltage

05

Green and environmentally friendly

Comply with national electronic information product pollution control management, ensuring that the product is in normal use, Will not cause harm to the environment and personnel

06

Has strong anti-interference ability

Rack mounted UPS power supply is designed to combat electromagnetic interference and radio frequency interference, Targeted design has been carried out, Greatly improves the anti-interference ability of rack mounted UPS power supply to electromagnetic and radio frequencies

Solving the Eight Major Voltage Problems



Mains power outage



power sags



Frequency fluctuations



Lightning surge protection



Electronic interference



overvoltage

GR11 rack mounted UPS singleinput and single output 1-3 KVA

Application field:

- ★ Power supply protection for important institutions such as transportation, electricity, healthcare, and venues
- ★ Large IDC centers
- ★ Financial Securities Data Center
- ★ Communication Network Management Center

Product Description:

Parallel redundancy, stable operation, and high reliability
In rack mounted modular UPS, the power modules are parallel redundant, and each module is equipped with input and output fuses and input and output relays. If any module fails, it does not affect the overall system operation.



Product Characteristics:

⚡Null transformation

Zero conversion time between mains mode and battery mode to ensure continuous operation of user business

⚡Mobile applications

Support for mobile intelligent monitoring cards, Real time monitoring of various data through mobile apps

⚡Sine wave power output

Capable of operating in mains or battery mode, Both can output sine wave power supply, Provide the best power guarantee for users' devices

⚡With bypass protection function

When the load equipment requires that the voltage should not be too high, The bypass protection function of the rack mounted power supply can provide high voltage protection, thereby protecting the customer's load equipment from high voltage hazards

⚡Green and environmentally friendly

Comply with national electronic information product pollution control management, ensuring that the product is in normal use, Will not cause harm to the environment and personnel

⚡Has strong anti-interference ability

The rack mounted UPS power supply has been designed specifically for electromagnetic and radio frequency interference, greatly improving its anti-interference ability against electromagnetic and radio frequency interference

Four advanced technologies:

The latest switching technology is adopted in the PFC boost, reducing the voltage spikes and switching losses of PFCIGBT, and improving the withstand voltage capability of UPS to withstand transient high voltages such as lightning strikes. ★ Adopting the latest three-level inverter architecture, it solves the problem of half bridge inverter circuits not being able to carry half wave and inductive loads.
★ Realize digitization of inverter control, using voltage and current dual loop control to improve dynamic response speed and output performance.
The PFC circuit adopts frequency doubling control, effectively improving the overall efficiency of the machine.

Technicalparameters:

Model		GR11-1KVA	GR11-2KVA	GR11-3KVA
rated power		1KVA/0.9KW	2KVA/1.8KW	3KAV/2.7KW
Input	Voltage range	90~275Vac single-phase two wire+grounding wire		
	Operating frequency range	50/60±6Hz		
	Input power factor	≥0.99		
Exportation	Rated voltage and accuracy	220Vac (l ± 2%) single-phase two wire+grounding wire		
	Frequency	44-56Hz/54-66Hz synchronous mains power; Adaptive (battery)		
	Rated current	4.5A	9.1A	13.6A
	Output power factor	0.9		
	Output harmonic	<3%		
	crest factor	3:1		
	over load	Mains: 102%<Load<110%, switch to bypass mode within 30 minutes and warn; 110%<Load~130%, lOmin switches to bypass mode and warns; 130%<Load<150%, switch to bypass mode for 30 seconds and warn; Load>150%, switch to bypass mode for 200ms and warn; Battery: 102% v Load<110%, lmin switches to bypass mode and warns; 110%<Load<130%, switch to bypass mode for 10 seconds and warn; 130%<Load<150%, switch to bypass mode for 3 seconds and warn; Load>150%, switch to bypass mode for 200ms and warn		
Conversion time from mains to battery		0ms		
efficiency		Mains mode>94%		
Battery	rated voltage	36Vdc	72Vdc	96Vdc
	Number of battery sections	EXTERNAL BATTERY		
	Charging current	1-6A （可设）, 标机默认1A		
Machine size (length x width x height) mm		400x482.6x88		
machine weight		6.5 kg	7.5kg	7.8kg
Ambient Temperature		0°C~40°C		
Working relative humidity		20% ~95%		
noise		W50dB		

GR11 rack mounted UPS singleinput and single output 6-10KVA

Application field:

- ★ Power supply protection for important institutions such as transportation, electricity, healthcare, and venues
- ★ Large IDC centers
- ★ Financial Securities Data Center
- ★ Communication Network Management Center

Product Description:

Parallel redundancy, stable operation, and high reliability
In rack mounted modular UPS, the power modules are parallel redundant, and each module is equipped with input and output fuses and input and output relays. If any module fails, it does not affect the overall system operation.



Product Characteristics:

⚡Null transformation

Zero conversion time between mains mode and battery mode to ensure continuous operation of user business

⚡Mobile applications

Support for mobile intelligent monitoring cards, Real time monitoring of various data through mobile apps

⚡Sine wave power output

Capable of operating in mains or battery mode, Both can output sine wave power supply, Provide the best power guarantee for users' devices

⚡With bypass protection function

When the load equipment requires that the voltage should not be too high, The bypass protection function of the rack mounted power supply can provide high voltage protection, thereby protecting the customer's load equipment from high voltage hazards

⚡Green and environmentally friendly

Comply with national electronic information product pollution control management, ensuring that the product is in normal use, Will not cause harm to the environment and personnel

⚡Has strong anti-interference ability

The rack mounted UPS power supply has been designed specifically for electromagnetic and radio frequency interference, greatly improving its anti-interference ability against electromagnetic and radio frequency interference

Four advanced technologies:

The latest switching technology is adopted in the PFC boost, reducing the voltage spikes and switching losses of PFCIGBT, and improving the withstand voltage capability of UPS to withstand transient high voltages such as lightning strikes. ★ Adopting the latest three-level inverter architecture, it solves the problem of half bridge inverter circuits not being able to carry half wave and inductive loads.
★ Realize digitization of inverter control, using voltage and current dual loop control to improve dynamic response speed and output performance.
The PFC circuit adopts frequency doubling control, effectively improving the overall efficiency of the machine.

Technicalparameters:

Model		GR11-6KVA	GR11-10KVA
rated power		6KVA/5.4KW	10KAV/9KW
Input	Voltage range	90~275Vac single-phase two wire+grounding wire	
	Operating frequency range	50/60±6Hz	
	Input power factor	≥0.99	
Exportation	Rated voltage and accuracy	220Vac (1 ± 1%) single-phase two wire+grounding wire	
	Frequency	44-56Hz/54-66Hz synchronous mains power; Adaptive (battery)	
	Rated current	27A	45A
	Output power factor	0.9	
	Output harmonic	≤3%	
	crest factor	3:1	
	over load	Mains: 102%<Load<110%, switch to bypass mode within 30 minutes and warn; 110%<Load~130%, 10min switches to bypass mode and warns; 130%<Load<150%, switch to bypass mode for 30 seconds and warn; Load>150%, switch to bypass mode for 500ms and warn; Battery: 102% v Load<110%, switch to bypass mode for 10min and warn; 110%<Load<130%, switch to bypass mode for 10min and warn; 130%<Load<150%, switch to bypass mode for 3 seconds and warn; Load>150%, switch to bypass mode for 500ms and warn	
Conversion time from mains to battery		0ms	
efficiency		≥94%	
Battery	rated voltage	192Vdc	
	Number of battery sections	16	
	Charging current	1-6A (configurable), default 1A for standard machines	
Machine size (length x width x height) mm		400x482.6x88	
machine weight		8kg	9kg
Ambient Temperature		0°C~40°C	
Working relative humidity		20% ~95%	
noise		≤55dB	

GR31 rack mounted UPS with three inputs and one output of 10-20KVA

Application field:

- ★ Power supply protection for important institutions such as transportation, electricity, healthcare, and venues
- ★ Large IDC centers
- ★ Financial Securities Data Center
- ★ Communication Network Management Center

Product Description:

Parallel redundancy, stable operation, and high reliability
In rack mounted modular UPS, the power modules are parallel redundant, and each module is equipped with input and output fuses and input and output relays. If any module fails, it does not affect the overall system operation.



Product Characteristics:

⚡ Null transformation

Zero conversion time between mains mode and battery mode to ensure continuous operation of user business

⚡ Mobile applications

Support for mobile intelligent monitoring cards, Real time monitoring of various data through mobile apps

⚡ Sine wave power output

It can output a sine wave power supply in both mains mode and battery mode, Provide the best power guarantee for users' devices

⚡ With bypass protection function

When the load equipment requires that the voltage should not be too high, The bypass protection function of the rack mounted power supply can provide high voltage protection, thereby protecting the customer's load equipment from high voltage hazards

⚡ Green and environmentally friendly

Comply with national electronic information product pollution control management, ensuring that the product is in normal use, Will not cause harm to the environment and personnel

⚡ Has strong anti-interference ability

The rack mounted UPS power supply has been designed specifically for electromagnetic and radio frequency interference, greatly improving its anti-interference ability against electromagnetic and radio frequency interference.

Four advanced technologies:

The latest switching technology is adopted in the PFC boost, reducing the voltage spikes and switching losses of PFCIGBT, and improving the withstand voltage capability of UPS to withstand transient high voltages such as lightning strikes. ★ Adopting the latest three-level inverter architecture, it solves the problem of half bridge inverter circuits not being able to carry half wave and inductive loads.

★ Realize digitization of inverter control, using voltage and current dual loop control to improve dynamic response speed and output performance.

The PFC circuit adopts frequency doubling control, effectively improving the overall efficiency of the machine.

Technical parameters:

Model		GR31-10KVA	GR31-15KVA	GR31-20KVA
rated power		1KVA/0.9KW	15KVA/13.5W	20KVA/18KW
Input	Voltage range	207-475Vac three-phase four wire+grounding wire		
	Operating frequency range	40-70HZ (adjustable)		
	Input power factor	>0.95		
Exportation	Rated voltage and accuracy	220Vac (I ± 1%) single-phase two wire+grounding wire		
	Frequency	46-54HZ synchronous mains power; 50Hz (between 40-46Hz and 54-60Hz for mains power); 50Hz (battery)		
	Rated current	45A	68A	91A
	Output power factor	0.9		
	Output harmonic	W3%		
	crest factor	3:1		
	over load	105% ± 5% < load < 125% ± 5%: After 1 minute, switch to bypass output and alarm; 125% ± 5% < load W135% ± 5%: switch to bypass output and alarm after 30 seconds; Load > 135% ± 5%: After 300 milliseconds, switch to bypass output and alarm		
Conversion time from mains to battery		0ms		
efficiency		>92%		
Battery	rated voltage	192Vdc		
	Number of battery sections	16		
	Charging current	5.5A		
Machine size (length x width x height) mm		665*482.6*132.5	665*482.6*132.5	
machine weight		23kg	34kg	35kg
Ambient Temperature		0°C~40°C		
Working relative humidity		20% ~95%		
noise		<60dB		

GM series

Modular UPS

▶ On demand expansion and cost reduction

Modular UPS is a new generation of three in three out modular UPS launched by our company. The product adopts digital control, modular design, and N+X parallel redundancy technology, focusing on the fields of power electronics and automatic control. The most advanced technological achievements are benchmark products in the field of modular UPS. The product covers various power ranges from 50kW to 600kW, making it convenient for users to flexibly configure and gradually invest. It can be connected with 4 units to 2400kW. This product has a wide range of applications and provides safe, stable, reliable, and environmentally friendly power protection for key loads such as data centers, financial centers, government enterprise rooms, medical education, etc.

▶ Six major performance advantages

01

With multiple working modes

There are multiple formats to choose from, which can achieve multiple inlet and outlet methods. If input and output transformers are configured, they can meet the power supply needs of all countries and regions worldwide

03

Efficient and energy-saving

Energy saving and consumption reduction, with an input power factor of over 0.999, Reduced line losses, improved power utilization, Its inverter efficiency can reach over 98%, improving the overall work efficiency, reducing losses, and saving electricity

05

Scalability facilitates installation, maintenance, replacement, and upgrade

Composed of various modules, it can achieve hot swapping function, And each module rack can be completely separated, allowing for online replacement and maintenance for future expansion or reduction, reducing maintenance difficulty Reduced maintenance time, modules can be shared with standard racks

02

Small size, high power density

High work efficiency and high power density, Output power 0.9

04

Environmentally Friendly

Minimize harmonic interference to the power grid, Effectively reducing grid load and power loss Excellent input parameters, exhibiting pure resistance characteristics for the municipal power grid, making it an ideal environmentally friendly and efficient UPS

06

Redundancy, decentralized parallel logic control

The parallel control between each module adopts a decentralized logic control method, The removal or insertion of any module will not affect the normal operation of other modules, forming an N+1, N+X redundant system as needed, Reduced the risk coefficient of the system itself and load

▶ Solving the Eight Major Voltage Problems



Mains power outage



power sags



Frequency fluctuations



Lightning surge protection



Electronic interference



overvoltage

GM3330 modular UPS threein and three out 300~600KVA

Application field:

- ★ Industrial application protection
- ★ Power supply protection for important institutions such as transportation, electricity, healthcare, and venues
- ★ Small data rooms
- ★ Communication Network Management Center
- ★ Office automation
- ★ Experimental instruments and equipment

Product Description:

Modular UPS is a new generation of three in three out modular UPS launched by our company. The product adopts digital control, modular design, and N+X parallel redundancy technology, focusing on the fields of power electronics and automatic control. The most advanced technological achievements are benchmark products in the field of modular UPS. The product covers various power ranges from 50kW to 600kW, making it convenient for users to flexibly configure and gradually invest. It can be connected with 4 units to 2400kW. This product has a wide range of applications and provides safe, stable, reliable, and environmentally friendly power protection for key loads such as data centers, financial centers, government enterprise rooms, medical education, etc.

Product Characteristics:

⚡ high reliability

- N+X parallel redundancy design, system availability reaches 99.999%. The MTBF can last for over 250000 hours, meeting the high reliability requirements of critical loads for the power supply system. With flexible parallel redundancy settings, the system can provide maximum output capacity.
- Control system parallel redundancy: the control method is decentralized control and centralized management; The centralized control unit is redundant in parallel, and one failure does not affect the operation of the entire machine. The optimized distribution of combiner cabinets ensures the safety of system parallel connection.
- The centralized monitoring module has a hot swapping function, and the system can work normally when the monitoring module is unplugged; Adopting centralized bypass power supply to improve the power supply capacity of bypass power supply.
- EPO function, pressing the EPO button in an emergency situation can shut down the machine in an emergency; The EPO button is designed for protection, which can avoid misoperation; Equipped with remote emergency shutdown (REPO) function.

⚡Advanced technique

- All parts of the architecture adopt digital control, with excellent performance and high system stability, possessing self-protection and fault diagnosis capabilities. At the same time, it also avoids the risks caused by the failure of control devices, making the control system more stable and reliable.
- Adopting advanced three-level technology, the overall efficiency is as high as 96%.
- High power density design, 50kW single module size (W XDXH) 440 X 620 X 130mm output can be connected to a completely unbalanced load. When the output is connected to an unbalanced load, the input current is three-phase balanced, which can balance the load of the three-phase power grid.

⚡Green and environmentally friendly

- Adopting a 19 inch standard cabinet, perfectly matching the application environment of the computer room, saving the space used in the computer room.
- Sharing batteries in parallel greatly reduces the number of battery configurations, allowing users to configure batteries based on backup time. Adopting advanced three-level technology, the overall efficiency is as high as 96%.
- High power density design, 50kW single module size (W XDXH) 440 X 620 X 130mm output can be connected to a completely unbalanced load. When the output is connected to an unbalanced load, the input current is three-phase balanced, which can balance the load of the three-phase power grid.

⚡ Convenient and flexible

- Modular design, consisting of 1 to 12 modules in parallel, with a maximum power of 600kW, allowing users to gradually increase the number of modules with flexibility; Adopting hot swapping technology, modules can be added and removed online, achieving "zero" maintenance time.
- Short downtime for maintenance. If the number of faulty modules is less than or equal to the number of redundant modules, the downtime for maintenance is zero; The number of faulty modules is greater than the number of redundant UPS modules, and the downtime for maintenance shall not exceed 5 minutes.
- The cabinet LCD touch color screen display provides rich UPS status information, warning information, fault information, etc; Single module LED display, users can understand the working status of the module through the module LED lights.
- In case of emergency, UPS can switch to maintenance bypass power supply and maintenance personnel can safely conduct online maintenance.

⚡ Intelligent design

- The charging current can be set, and the user configured battery capacity and charging current can be set through the panel LCD; Realize automatic and smooth switching between constant voltage charging mode, constant current charging mode, and float charging mode.
- The intelligent charging method adopts an advanced two-stage three-stage charging method, which can effectively balance the goals of fast charging and extending battery life, saving users' battery investment.
- Provide a wide range of options, including installation of isolation transformers, distribution boards, SNMP cards, relay dry connection point cards, etc., to form a small to medium-sized distribution system.



Technical parameters:

Model		GM3330-300KVA	GM3330-400KVA	GM3330-500KVA	GM3330-600KVA
capacity	Cabinet	300kw	400kw	500kw	600kw
	module	50kw			
Number of large modules		6	8	10	12
Input	Main input	Rated input voltage (Vac)	380/400/415		
		Input voltage range (Vac)	138~485Vac		
		Wiring system	Three phase four wire+grounding		
		Input frequency range (Hz)	40~70		
		Input power factor	≥0.99		
		Input current harmonics (THDi)	≤ 3% (100% non-linear load)		
	Bypass input	Rated input voltage (Vac)	380/400/415		
		Input voltage range (Vac)	220 upper limit: 25% (optional+10%,+15%,+20%) 230 upper limit: 20% (optional+10%, 15%) 240 upper limit: 15% (optional+10%) Lower limit: -45% (optional 10%, -20%, -30%)		
		Wiring system	Three phase four wire+grounding		
		Bypass synchronous tracking error (%)	±10%		
	Generator connection	support			
Power Walking In	support				
Bypass reverse irrigation	support				
Exportation	voltage (Vac)	380/400/415±1%			
	Power factor	1			
	frequency (Hz)	Mains mode: ± 1%/± 2%/± 4%/± 5%/± 10% car			
		Battery mode: (50/60±0.1%) Hz			
	wave form	sine wave			
	Current to peak ratio	3:01			
	THD(I)	≤ 2% (100% linear load); ≤ 3% (100% nonlinear load)			
	Switching time (ms)	0			
	Overall efficiency (%)	96%			
	Overload capacity	110% load, continue for 60 minutes, then switch to bypass; 125% load, continue for 1 minute before switch; 150% load, continue for 1 minute before switch			
Battery	Maximum charging current of the module (A)	20			
	battery voltage	30-50 sections are optional, with a default of 36 sections; Optional voltage: ± 180V/± 192V/± 204V/± 216V/± 228V/± 240V/± 252V/± 264V/± 276V/± 288V/± 300Vdc (30/32/34/36/38/40/42/44/46/48/50 knots)			
environment	operation temperature	0℃~40℃			
	storage temperature	-25℃~55℃(excluding batteries)			
	Humidity range	0-95%(Non frost setting)			
	Working altitude	< 1500m (for use with derating exceeding			
Optical functions	Noise (at a distance of 1 meter)	< 68dB	< 70dB		
	Protection function	Short circuit, overload, overvoltage, output overvoltage/undervoltage, battery undervoltage, wind turbine fault alarm, bypass reverse injection, lightning protection			
	caution function	Multiple alarm functions such as abnormal power supply, overload, UPS failure, battery undervoltage, etc.			
Mechanical characteristic	communication	CAN, RS485, network interface, dry contact, parallel interface, IBS interface, intelligent slot, temperature sensor interface			
	size	Cabinet (mm)	600X850X2000	1200X850X2000	1200X850X2000
	(WxDxH)	module (mm)	440X620X130		
	net weight	Cabinet (mm)	260	280/600	645
		module (mm)	36		

GM series

Modular UPS

▶ On demand expansion and cost reduction

The system structure of modular UPS power supply is highly elastic, and the design concept of power modules is that they can be removed and installed freely during system operation without affecting the operation and output of the system, enabling investment planning to achieve "on-demand expansion" and users to achieve "dynamic growth" with business development. This not only meets the on-demand expansion of equipment in the later stage, but also reduces the initial purchase cost.

▶ Six major performance advantages

01

With multiple working modes

There are multiple formats to choose from, which can achieve multiple inlet and outlet methods. If input and output transformers are configured, they can meet the power supply needs of all countries and regions worldwide

02

Small size, high power density

High work efficiency, high power density, Output power 0.9

03

Efficient and energy-saving

Energy saving and consumption reduction, with an input power factor of over 0.999, Reduced line losses, improved power utilization, Its inverter efficiency can reach over 98%, improving the overall work efficiency, reducing losses, and saving electricity

04

Environment Friendly

Minimize harmonic interference to the power grid, Effectively reducing grid load and power loss Excellent input parameters, exhibiting pure resistance characteristics for the municipal power grid, making it an ideal environmentally friendly and efficient UPS

05

Scalability facilitates installation, maintenance, replacement, and upgrade

Composed of various modules, it can achieve hot swapping function, And each module rack can be completely separated, allowing for online replacement and maintenance for future expansion or reduction, reducing maintenance difficulty Reduced maintenance time, modules can be shared with standard racks

06

Redundancy, decentralized parallel logic control

The parallel control between each module adopts a decentralized logic control method, The removal or insertion of any module will not affect the normal operation of other modules, forming an N+1, N+X redundant system as needed, Reduced the risk coefficient of the system itself and load

▶ Solving the Eight Major Voltage Problems



Mains power outage



Frequency



fluctuations



Lightning surge protection



Electronic interference



overvoltage

GM33 modular UPS threeinand three out 90-300KVA

Application field:

- ★ Industrial application protection
- ★ Power supply protection for important institutions such as transportation, electricity, healthcare, and venues
- ★ Small data rooms
- ★ Communication Network Management Center
- ★ Office automation
- ★ Experimental instruments and equipment

Product Description:

Modular UPS is a new generation of three in three out modular UPS launched by our company. The product adopts digital control, modular design, and N+X parallel redundancy technology, focusing on the fields of power electronics and automatic control. The most advanced technological achievements are benchmark products in the field of modular UPS. The product covers various power ranges from 50kW to 600kW, making it convenient for users to flexibly configure and gradually invest. It can be connected with 4 units to 2400kW. This product has a wide range of applications and provides safe, stable, reliable, and environmentally friendly power protection for key loads such as data centers, financial centers, government enterprise rooms, medical education, etc.

Product Characteristics:

- ⚡ High reliability
 - N+X parallel redundancy design, system availability reaches 99.999%. The MTBF can reach over 250000 hours, meeting the high reliability requirements of critical loads for the power supply system. With flexible parallel redundancy settings, the system can provide maximum output capacity
 - Control system parallel redundancy: the control method is decentralized control and centralized management; The centralized control unit is redundant in parallel, and one failure does not affect the operation of the entire machine. The optimized distribution of combiner cabinets ensures the safety of system parallel connection.
 - The centralized monitoring module has a hot swapping function, and the system can work normally when the monitoring module is unplugged; Adopting centralized bypass power supply to improve the power supply capacity of bypass power supply.
 - EPO function, pressing the EPO button in an emergency situation can shut down the machine in an emergency; The EPO button is designed for protection, which can avoid misoperation; Equipped with remote emergency shutdown (REPO) function.
- ⚡ Advanced technique
 - All parts of the architecture adopt digital control, with excellent performance and high system stability, possessing self-protection and fault diagnosis capabilities. At the same time, it also avoids the risks caused by the failure of control devices, making the control system more stable and reliable.
 - Adopting advanced three-level technology, the overall efficiency reaches 96%
 - High power density design, 50kW single module size (W XDXH) 440 X 620 X 130mmo output can be connected to a completely unbalanced load. When the output is connected to an unbalanced load, the input current is three-phase balanced, which can balance the load of the three-phase power grid.
- ⚡ Green and environmentally friendly
 - Adopting a 19 inch standard cabinet, it perfectly matches the application environment of the computer room and saves space.
 - Sharing batteries in parallel greatly reduces the number of battery configurations, allowing users to configure batteries based on backup time Adopting advanced three-level technology, the overall efficiency is as high as 96%.
 - High power density design, 50kW single module size (W XDXH) 440 X 620 X 130mmo output can be connected to a completely unbalanced load. When the output is connected to an unbalanced load, the input current is three-phase balanced, which can balance the load of the three-phase power grid.

- ⚡ Convenient and flexible
 - Modular design, consisting of 1 to 12 modules in parallel, with a maximum power of 600kW, allowing users to gradually increase the number of modules with flexibility; Adopting hot swapping technology, modules can be added and removed online, achieving "zero" maintenance time.
 - Short downtime for maintenance. If the number of faulty modules is less than or equal to the number of redundant modules, the downtime for maintenance is zero; The number of faulty modules is greater than the number of redundant UPS modules, and the downtime for maintenance shall not exceed 5 minutes.
 - The cabinet LCD touch color screen display provides rich UPS status information, warning information, fault information, etc; Single module LED display, users can understand the working status of the module through the module LED lights.
 - In case of emergency, UPS can switch to maintenance bypass power supply and maintenance personnel can safely conduct online maintenance.
- ⚡ Intelligent design
 - The charging current can be set, and the user configured battery capacity and charging current can be set through the panel LCD; Realize automatic and smooth switching between constant voltage charging mode, constant current charging mode, and float charging mode
 - The intelligent charging method adopts an advanced two-stage three-stage charging method, which can effectively balance the goals of fast charging and extending battery life, saving users' battery investment.
 - Provide a wide range of options, including installation of isolation transformers, distribution boards, SNMP cards, relay dry connection point cards, etc., to form a small to medium-sized distribution system.

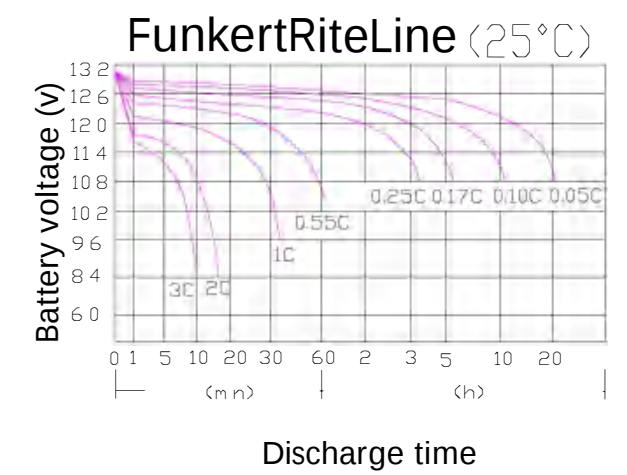
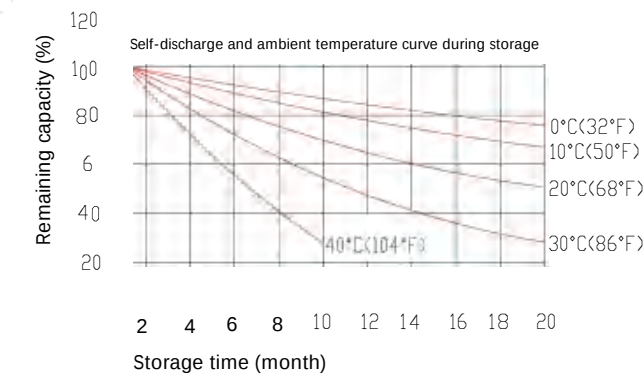
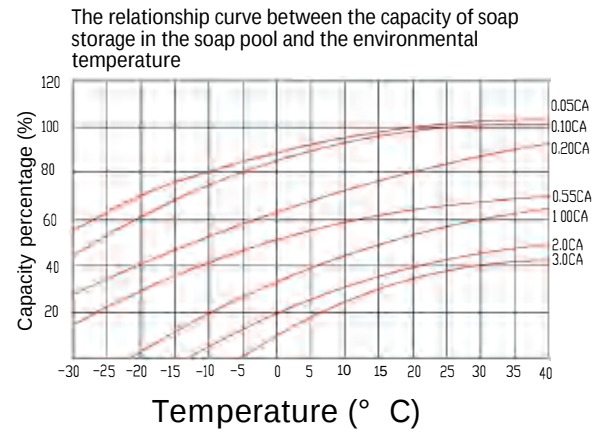
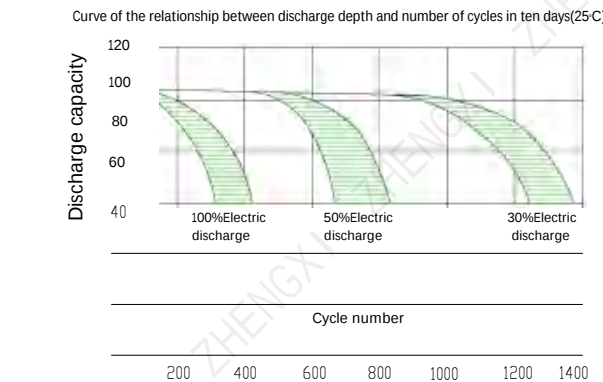
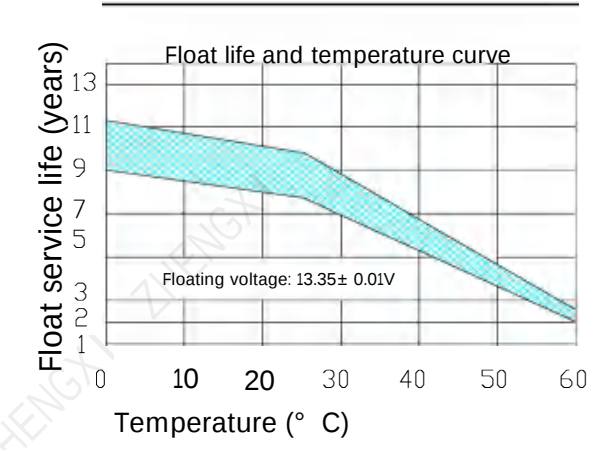
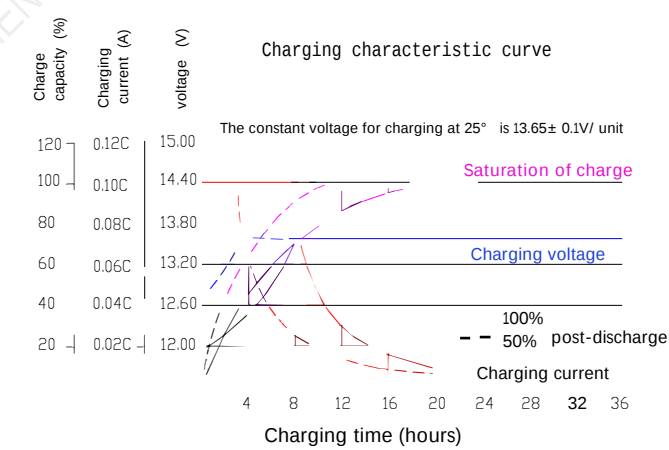
Technicalparameters:

Model		GM33-90KVA	GM33-150KVA	GM33-300KVA	
capacity	UPS机柜	90kw	150kw	300kw	
	功率模块	30k			
Input	Input method		Three phase four wire+ w		
	rated voltage		380/400/415Vac		
	Voltage range		207~478Vac		
	Frequency range		40-70Hz		
	Power factor		≥0.99		
	Bypass range		380 upper limit: 25% (optional+10%,+15%,+20%) 400 upper limit: 20% (optional+10%,+15%) 415 Upper limit: 15% (optional+10%) Lower limit: -45% (optional -20% , -30%) Bypass frequency protection Range: ± 10%		
	Input current harmonics		≤ 3% (100% non-linear load)		
Exportation	Output		Three phase four wire+ w		
	rated voltage		380/400/415Vac		
	Power factor		21:36		
	Voltage accuracy		±1%		
	Frequency	Mains mode	Synchronize with input: When the mains frequency exceeds the maximum ± 10% (± 1%%, ± 4% , ± 5% can be set) ± 2%, output frequency 50X (± 0.2%) Hz time,		
		Battery Mode	(50/60±0.2%) Hz		
	Peak load ratio		3:1		
	switching time		Switching from mains mode to bypass mode: 0ms (tracking); City battery mode conversion: 0 battery ms		
	Overload capacity		Load WHO%, 6 minutes; 125% load: 10min; Load ≤; 1 negative 50 load% 5:=11m50 in%; Turn off immediately upon assumption		
Output voltage harmonics		W2% (100% linear load)			
efficiency		Normal mode 95%			
communication interface		RS232、RS485、2^1 interlligent Slot (Smart slot) card, plug in dry slot connection			
Battery	battery voltage		± 192Vdc/± 204Vdc/± 216Vdc/± 228Vdc/± 240Vdc/ 38 (/3420/34 electricity) 5 pools 6/3 options available)		
	Charging current	UPS cabinet	30A Max	50AMax	100A Max
		Power Module	10A Max		
environment	operation temperature		0℃~40℃		
	relative humidity		0-95% (non condensing		
	storage temperature		-25~55 ° C (excluding batt		
	altitude		< 1500m (for use with derating		
Physical property	size (WxDxH)	Cabinet (mm)	840X600X1400		1100X600X2000
		Cabinet (mm)	580X443X131		
	net weight (kg)	Cabinet (kg)	158	170	305
		Cabinet (kg)	30k module: 33.5kgs		

Maintenance-free

Valve-controlled lead-acid battery

Characteristic curve



Maintenance-freevalveregulatedlead-acidbatteries

Application field:
★ Power supply protection for important institutions such as transportation, electricity, healthcare, and venues ★ Large IDC centers
★ Financial Securities Data Center
★ Communication Network Management Center

Product Description:
Parallel redundancy, stable operation, and high reliability
In rack mounted modular UPS, the power modules are parallel redundant, and each module is equipped with input and output fuses and input and output relays. If any module fails, it does not affect the overall system operation.



Product Characteristics:

- 1 long-life
- 2 Green and environmentally friendly
- 3 High reliability

- 4 Low internal resistance
- 5 Self discharge small high ampere
- 6 Safety

360 ° environmentally friendly battery, worry free and long-lasting

Technical Parameter:

Model	INPUT VOLTAGE	Actual capacity (AH)	Net weight (Kg)	Battery length * width * height (mm)	Packaging length * width * height (mm)
6GFM12-7	12V	7AH	2	151×64.5×94	346×316×123
6GFM12-9	12V	9AH	2.5	151×64.5×94	346×316×123
6GFM12-17	12V	17AH	5	181×77×167	335×191×191
6GFM12-24	12V	24AH	7.4	166×126×175	275×176×206
6GFM12-38	12V	38AH	11.8	197×165×176	353×208×210
6GFM12-65	12V	65AH	18.2	347×167×168	360×176×210
6GFM12-80	12V	80AH	22	329×172×215	344×182×260
6GFM12-100	12V	100AH	28.1	329×172×215	344×182×260
6GFM12-120	12V	120AH	32.2	407×172×208	344×182×260
6GFM12-150	12V	150AH	41.3	483×170×241	488×182×283
6GFM12-200	12V	200AH	54.5	522×240×241	530×250×260

Battery cabinet

- Modular design, can be installed in a 42U standard cabinet, or can be stacked and combined according to the needs of the construction site, seamlessly integrated.
- The installation position of the switch and wiring board, as well as the front and rear up and down options, can be installed with molded case switches for convenient wiring.
- The detachable fully open structure allows for quick disassembly of the front, rear, left, and right panels, making installation and maintenance convenient.
- Made of high-quality silver zinc sheet, it is formed by stamping, with uniform stress, beautiful black and red color matching, and smooth curves.
- Optional automatic fire extinguishing facilities can be equipped, with automatic fire extinguishing at temperatures of 170 or 130 degrees (adjustable), without the need for separate control.
- Optional battery voltage, current, temperature, internal resistance and other detection functions.
- Battery cabinet load bearing test report, appearance design patent certificate, and utility model patent certificate



This section describes the battery detection function

1 Omnidirectional inspection

Charge and discharge status, total voltage, current, ambient temperature, voltage per battery, internal resistance per battery, temperature per battery, remaining capacity.

2 Leakage detection (adaptive)

By arranging leakage sensors, the phenomenon of battery leakage can be monitored in real time to prevent battery short-circuit fire caused by battery leakage.

3 Exception warning

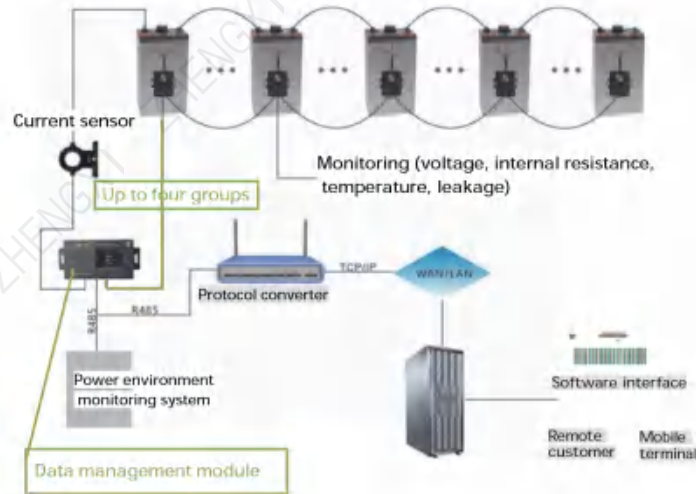
Over threshold, equipment failure, communication; The scene sound and light praise, the background pop up the report window

4 Data display

On-site 320*240 LCD display, background monitoring platform using B/S structure, web browsing; Support mobile APP display (optional).

5 Data analysis and reporting

Professional client software can be configured to query and classify historical data, automatically generate bar charts and trend charts, and customize various reports (WORD/EXSL).



Technical parameters:

Technical parameters:	Appearance color	material quality	Number of layers	structure	Overall size length * wide *Height mm	Outer packaging size mm	weight
C1B	Computer gray or black	SPCC cold rolled steel plate	1Layer	integral expression	280×190×220	302×210×252	2.6
C1	computer gray or black	SPCC cold rolled steel plate	1Layer	integral expression	435×210×270	450×235×310	4.2
C1A	computer gray or black	SPCC cold rolled steel plate	1Layer	integral expression	540×210×230	560×230×257	4.5
C2	computer gray or black	SPCC cold rolled steel plate	1Layer	combination	470×390×310	500×405×130	7
C3	computer gray or black	SPCC cold rolled steel plate	1Layer	combination	585×450×310	630×470×125	9
C4	computer gray or black	SPCC cold rolled steel plate	2Layer	combination	460×470×620	670×530×180	13.5
C6	computer gray or black	SPCC cold rolled steel plate	2Layer	combination	595×470×620	675×530×190	15.5
C8	computer gray or black	SPCC cold rolled steel plate	2Layer	combination	780×470×620	790×520×180	18.5
C10	computer gray or black	SPCC cold rolled steel plate	2Layer	combination	950×470×620	965×540×190	23
C12	computer gray or black	SPCC cold rolled steel plate	3Layer	combination	780×470×910	965×530×250	35
C16	computer gray or black	SPCC cold rolled steel plate	4Layer	combination	780×470×1190	A: 1250×520×155 14 B: 800×375×210	14 19
C20	computer gray or black	SPCC cold rolled steel plate	4 Layer	combination	950×470×1190	A: 1250×520×155 15.5 B: 970×375×210	15.5 23.6
C24	computer gray or black	SPCC cold rolled steel plate Angle steel	4 layers, 2 examples	combination	1150×470×1190	A: 1250×520×155 17 B: 1175×370×225 42	17 42
C32	computer gray or black	SPCC cold rolled steel plate	4 layers, 2 examples	combination	780×880×1190	A: 1250×935×165 29 B: 800×375×270	29 27

Solar inverter series

Night Foil Cushion 0 Night Foil Plus Symptoms

Our company's newly launched solar photovoltaic inverter adopts advanced MPPT calculation method and intelligent battery management design to ensure maximum energy acquisition. The inverter adopts high-frequency design, with advantages such as high power density, small size, and simple operation; High overall efficiency and low no-load loss improve the utilization rate of solar energy. This product has a wide range of applications, including photovoltaic rooftop power generation, photovoltaic car shed power generation, photovoltaic RV power generation, daily household appliances, etc.

Sixmajorperformanceadvantages

01

Oligosis

High overall efficiency, low no-load loss, and up to 93% inverter output efficiency, improving the utilization rate of solar energy

03

WiFi communication

By downloading an application from a mobile phone to monitor the system, one can obtain information on the power generation and benefits of the solar system

05

16 And Cong Errong
embraces Ye Chuan Han

02

Ge Shangguan Hao

After installing the dustproof net, the inverter will automatically detect the internal temperature of the inverter through internal sensors. By incorporating dustproof design, the lifespan of the inverter in harsh environments is improved and the reliability of the product is improved.

04

Right stem trillion eyes

The charging priority setting and charging voltage can be adjusted for different types of batteries, which can extend the battery life and improve system performance.

06

Mourning Chu obstructs coaxing
wheels, brushing iron, swimming
spring, weaving and sowing

Rumor of Night Foil Shocking Turtle



Rated
power
2-5KVA



DC
voltage
24V/48V

Automatic
identification frequency
40Hz-65Hz

Highfrequencyoff-gridinvertercontrolall-in-one PVI series (1KW-5KW)



Productcharacteristics

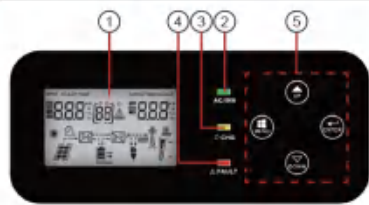
- Pure sine wave output, suitable for various types of loads
- Built-in PWM charging controller
- With multi-mode setting function, the priority level of photovoltaic, utility, and battery can be selected and set through the LCD screen
- The charging current and voltage can be set through the LCD screen to meet different types of batteries
- With a wide range of mains input voltage, it can be selected through LCD to meet different electricity needs
- Equipped with protection functions such as battery over discharge, overload protection, over temperature protection, short circuit protection, etc
- With cold start function
- WIFI intelligent monitoring function, supporting mobile app to view various data (optional)
- Supports USB and RS485 monitoring functions
- Can add parallel boards, achieve expansion of three parallel machines, or merge into three-phase input and output (option/only 4-5KW)

Product Introduction

PVI series is a pure sine wave high-frequency solar inverter control all-in-one machine, built-in PWM controller, with high power density, small size, simple operation, high efficiency of the whole machine, small no-load loss and other advantages. Broad should

Used in household systems, communication base stations, monitoring systems, pastoral areas, etc.

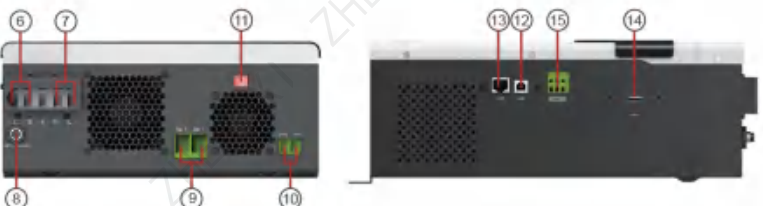
Panel Description



1. LCD display
2. Status indicator light
3. Charging indicator light
4. Mil
5. function keys



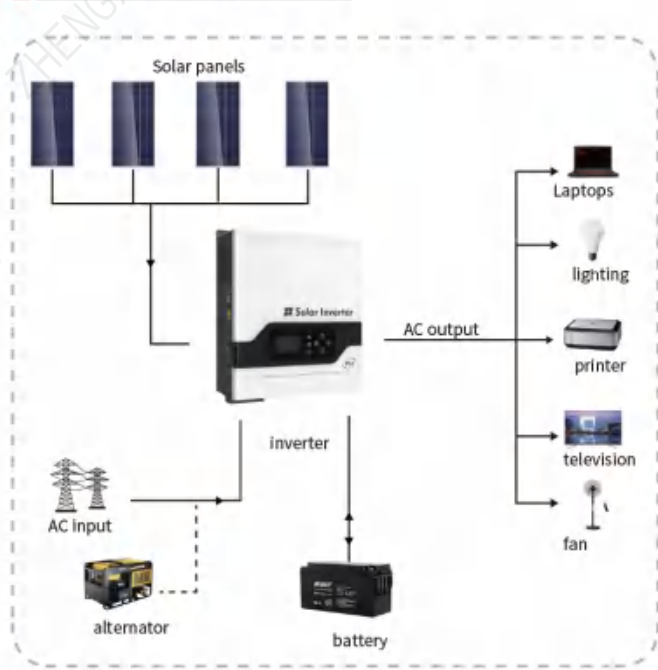
[PVI 1K]



[PVI 2-3K]

- 6.ac input
7. AC output
8. Circuit breaker
9. Battery input
- 10.PV input
- 11.Power switch key
- 12.USB interface
- 13.RS485 communication interface
- 14.Pluggable WiFi interface
- 15.DRY CONTACT

System ConnectionDiagram



Technicalparameters:

Model		PVI-1012	PVI-2024	PVI-3024	PVI-4048	PVI-5048
Rated battery voltage		12VDC	24VDC		48VDC	
Inversion output	rated power	1000W	2000W	3000W	4000W	5000W
	instantaneous power	2000W	4000W	6000W	8000W	10000W
	wave form	Pure sine wave				
	AC voltage (battery mode)	(220vac~240vac)±5%				
	Inverter efficiency (peak)	93%				
	conversion time	10ms (UPS、VDE4105); 20ms(APL)				
exchange input	voltage	230VAC				
	Selectable voltage range	170~280VAC (UPS) 90~280VAC (APL) 184~253VAC(VED4105)				
	Frequency range	50Hz / 60Hz (Automatic detection)				
battery	battery voltage	12VDC	24VDC		48VDC	
	Float charging voltage	13.7VDC	27.4VDC		54.8VDC	
	Overcharge alarm voltage	15.5VDC	30VDC		60VDC	
Solar charger & ac charger	Maximum PV open circuit voltage	55VDC	75VDC	80VDC	105VDC	
	no-load loss	2W	2W		2W	
	PV maximum charging current	50A	50A	60A	60A	
	Maximum AC charging current	10A or 20A	10A or 20A	20A or 30A	60A	
	Maximum charging current	70A	70A	80A	120A	
machine specifications	Machine size (W * H * D) (mm)	224*337*98	290*342*125		297.5*468*125	
	Packaging size (W * H * D) (mm)	372*387*211	438*400*256		415*618*261	
	Net weight (kg)	5.0	5.5	7.8	12	
	Gross weight (kg)	6.0	6.5	10.3	13.5	
other	humidity	5% to 95% Relative humidity (non condensing)				
	Operating temperature range	0°C ~55°C				
	storage temperature	-15°C ~60°C				

Highfrequencyphotovoltaicseriesgridconnectedinverter PH50TM series (4KW-15KW)



Productcharacteristics

- Designed with no fan and natural heat dissipation, with a protection level of IP65, suitable for various harsh environments
- Adopting two MPPT inputs to adapt to maximum power tracking of solar panels installed at different latitudes and longitudes
- Designed with a wide MPPT voltage range of 200-1000V, ensuring reasonable connection of solar panels
- MPPT efficiency up to 99.5%
- With multiple communication interfaces: WiFi, USB, GPRS, RS-485, supporting mobile app monitoring data
- Adapt to the safety regulations of multiple national power grids
- Optional anti reflux function (optional)

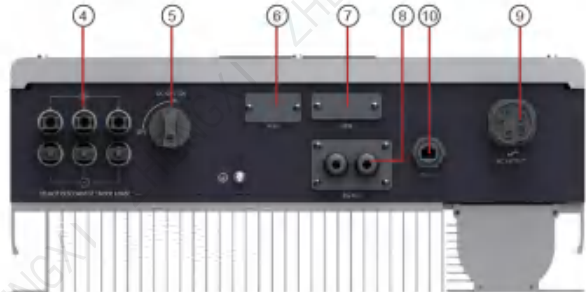
Product Introduction

The PH50TM series product is a three-phase series high-frequency grid connected inverter that uses natural cooling for heat dissipation. The fanless structure ensures the high efficiency of the inverter, and LED displays the working status of the inverter,Effectively improving product service life. Adopting DSP digital control, it has an ultra wide photovoltaic input voltage and comprehensive protection functions. Greatly improve the reliability of products while maximizing benefits.

Panel Description



- Normal operation (green)
- WIFI communication (blue)
- Fault indication (red)
- Photovoltaic input
- dc switch
- WIFI interface
- USB
- RS485
- AC output
- Electricity meter communication interface



System ConnectionDiagram



Technicalparameters:

Model		PH50-4000TM	PH50-5000TM	PH50-6000TM
AC output	Rated AC output power	4000W	5000W	6000W
	Maximum AC apparent power	4400VA	5500VA	6600VA
	maximum output current	6.4A	8A	9.6A
	Rated AC voltage	230V / 400V		
	AC voltage range	320-478V		
	AC allowable grid frequency range	50±5Hz		
		60±5Hz		
	Rated output power factor	1		
	Power factor range	0.8 lead to 0.8 lag		
	Output current harmonics (THDI)	< 3%		
data in	Communication connection method	3W+N+P		
	Maximum allowable access string power	4800W	6000W	7200W
	Maximum DC voltage	1000V		
	starting voltage	160V		
	rated voltage	600V		
	MPPT voltage range	200V-1000V		
	Maximum input current	12.5A / 12.5A		
	Number of MPPTs/Number of MPPT strings per channel	2/1		
	DC terminal	H4/MC4 type		
efficiency	Maximum efficiency	98.4%		
	European efficiency	97.6%		
	MPPT efficiency	99.5%		
	Protective devices	DC reverse polarity protection, output overcurrent protection, output overvoltage,Integrated DC switch, ground fault monitoring, integrated leakage current monitoring device		
General	Dimensions (width * height * depth) (mm)	500*428*200		
	Weight (kg)	21		
	Operating temperature range	-25 °C ~+60 °C (derating above 45 °C)		
	Noise emissions	≤ 35dB(A)		
	altitude	3000m		
	Self damage (at night)	< 1W		
	topology	Transformerless		
	Cooling method	natural cooling		
	Environmental protection level	Ip65		
	relative humidity	0-100%		
other	AC connection	connector		
	display	LED		
	Interface: USB/WI-FI/RS485/GPRS	Yes/Yes/Yes/Optional		
	warranty	Standard 5 years/10 years (optional)		
	Certificate License	CE / IEC62109 / EN50549-1 标准		

High frequency off grid integrated inverter PH1800 Plus series (2KW-5.5KW)



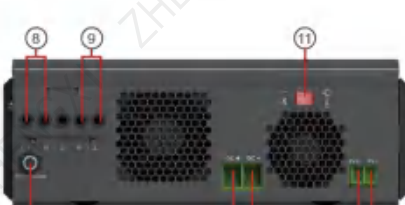
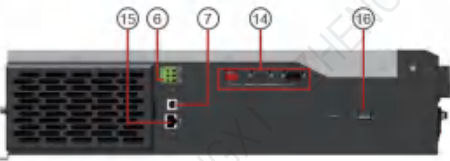
Product characteristics

- Pure sine wave output, suitable for various types of loads
- Low no-load loss, high inverter efficiency, energy-saving and environmentally friendly
- With multi-mode setting function, the working mode of off grid and off grid can be selected through the LCD screen
- With a wide range of mains input voltage, it can be selected through LCD to meet the power needs of different devices
- The charging current and voltage can be set through the LCD screen to meet different types of batteries
- Equipped with protection functions such as battery over discharge, overload protection, over temperature protection, short circuit protection,
- Equipped with automatic frequency detection function, suitable for different power grid environment
- Can add parallel boards, achieve three parallel expansion or parallel three-phase input and output (optional)
- WIFI intelligent monitoring function, supporting mobile app to view various data (optional)

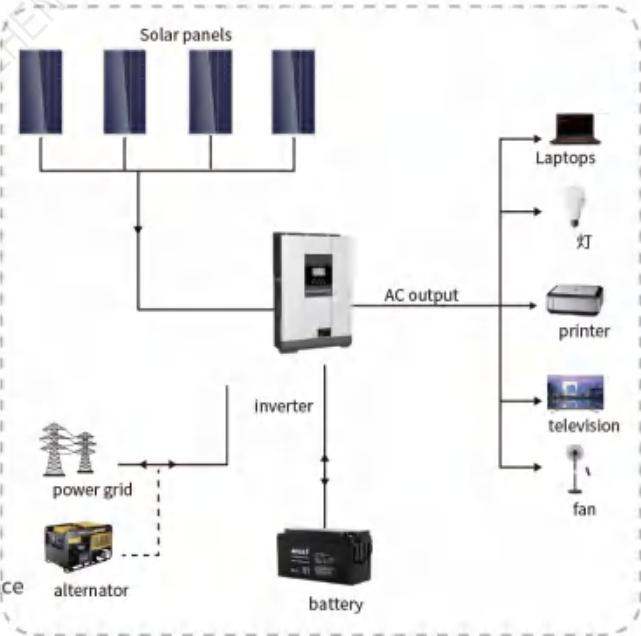
Product Introduction

PH1800 PULS is a high-frequency off grid integrated photovoltaic inverter that integrates MPPT controller, AC charger, inverter and other functional modules. It has characteristics such as high power density, small size, simple operation, high efficiency, and low no-load loss. Widely used in household energy storage and , communication base stations.

Panel Description



System Connection Diagram



1. LCD display
2. Status display light
3. charge indicator
4. Fault indication
5. Function buttons
6. DRY CONTACT
7. USB
8. AC input
9. AC output
10. PV input
11. On/Off switch
12. Battery input terminal
13. Circuit breaker
14. Parallel interface
15. RS-485 communication interface
16. USB WIFI

(2KW-3KW)

(3KW-5.5KW)

Technical parameters:

Model		PH18-2024 Plus	PH18-3024 Plus	PH18-3048 Plus	PH18-4048 Plus	PH18-5048 Plus	PH18-5548 Plus
Rated battery voltage		24VDC		48VDC			
inverter output	rated power	2000W	3000W	3000W	4000W	5000W	5500W
	Surge power	4000W	6000W	6000W	8000W	10000W	11000W
	wave form	Pure sine wave					
	AC voltage regulation (battery mode)	220VAC~240VAC(设置)					
	current	8.7A	13A		17.4A	21.7A	23.9A
	Inverter efficiency (peak)	93%					
	conversion time	10ms(UPS、 VDE4105) 20ms(APL)					
AC input	voltage	230VAC					
	Selectable voltage range	170~280VAC(UPS), 90~280VAC(APL), 184~253VAC(VDE4105)					
	Frequency range	50Hz / 60Hz(Automatic detection)					
battery	battery voltage	24VDC		48VDC			
	Float charging voltage	27.4VDC		54.8VDC			
	overcharge protection	30VDC		60VDC			
PV charger & grid charger	Maximum open-circuit voltage of photovoltaic array	145VDC					
	Photovoltaic array MPPT voltage range	30~130VDC		64~130VDC			
	standby loss	2W					
	Maximum photovoltaic array power	2000W		4000W			
	Maximum PV charging current	80A					
	Maximum conversion efficiency	98%					
	Maximum AC charging current	60A					
	Maximum combined charging current	140A					
specifications	Machine size (W * H * D)	272*355*100 mm		297.5*468*125mm			
	Net weight (KG)	7.4		10			
	Packaging size (W * H * D)	570*405*246mm		610*405*241mm			
	Gross weight (KG)	10		12.6			
other	humidity	5% to 95% Relative humidity (non condensing)					
	Machine operating humidity	0° C ~55° C					
	Machine storage temperature	-15° C ~60° C					

ZHENGXI ELECTRIC

The classic cannot be copied, the story continues.

More energy, less trouble, more power, less trouble.

Stylish living, unlimited electricity,

Let the world, with no power outage!