



Anhui Coolnet Data Power Co.,LTD

Add:Building F1, Xingmengyuan Mansion, High-tech Zone, Hefei City, Anhui Province, China
Tel: +86-0551-65568275 Fax:+86-0551-65568275
Website: www.coolnetpower.com

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UNINTERRUPTIBLE POWER SUPPLY

Power Solution Specialist

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- PGM Series 10~150KVA 3-phase Rack-Modular UPS 03-06
- PGM Series 30~1200KVA 3-phase Tower-Modular UPS 07-14
- PX Series 150~180KVA Power Distribution System 15-16
- PGH Series 1~10KVA 1-phase Tower UPS 17-24
- PGH Series 10~2000KVA 3-phase Tower UPS 25-36
- PGH Series 1~10KVA 1-phase Rack UPS 37-44
- PGH Series 10~60KVA 3-phase Rack UPS 45-48
- PGI Series 10~600KVA 3-phase UPS 49-52

COMPANY PROFILE

Coolnet focuses on the R&D, production, and application of data center integrated solutions. As technical consulting, product supply, system integrator, and service provider, it is committed to serving customers in the fields of communication equipment rooms, data centers, smart construction, and energy management.

Our solutions include data center temperature, humidity, and energy-saving solutions, small and medium-sized computer room temperature control solutions, micro-module data center solutions, micro-module cabinet solutions, container, and modular data center solutions, communication outdoor cabinet temperature control and energy saving Solutions, cabinet temperature and humidity, and energy-saving solutions.


Has rich research and manufacturing experience in the field of data center equipment, with world-class laboratories, production testing equipment, and a complete line of key equipment rooms. And passed the ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have passed CE certification, CCC certification, CQC certification, CRAA quality certification, etc.

We are committed to "paying attention to customer needs and realizing customer value" and establishing a win-win cooperation pattern with customers. To become your most trustworthy, most grateful, most professional, most practical, and most reliable partner with the best vision. We will "make every effort to provide value for money products and services to make customers more competitive", and continue to explore and innovate.




>>> Power Guard


PGM Series Rack-mounted Modular UPS Three Phase In Three Phase Out 10~60KVA



Superior overload capacity
Superior overload capacity to make the power supply system more reliable.



User-friendly design
LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;



Grid friendly
Energy saving green power with high input power factor and low THDi.



Energy saving
Under normal use, the product will not cause harm to people and the environment.



Product Description

PGM series rack-mount modular UPS uninterruptible power supply system is a highly reliable product designed to meet the higher requirements of power systems. The system adopts on-line double-conversion structure and three-in-three-out operation mode; the power system consists of multiple individual power modules connected in parallel and operates under the condition of no main synchronisation, which realises N+X parallel redundancy backup work and greatly improves the reliability of the system as a whole;

Main Feature

- Mounted in 19 inch rack, or stand alone
- 7 inch touch LCD, with IoT functions
- High reliability and environment adaptability, with protection of components level
- Extreme power density design, easy to install, space-saving, good maintenance
- Support battery without centerline (optional), more diversified application scenarios.

Model PGM	020/10RTL	040/10RTL	060/10RTL
Rate Power	20KVA/20KW	40KVA/40KW	60KVA/60KW
Main input			
Input	(3P+N+PE)		
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
Rate Freq.	50/60Hz		
Input PF	>0.99		
Current Distortion	THDi<3%(100%Linear load)		
Voltage Range	304-478VAC(L-L)full load;304-228VAC(L-L)power derate from 100%to 75%		
Freq.Range	40-70Hz		
Battery			
Rate voltage	±240VDC(adjustable for20-50 sections) Optional480VDC(adjustable for 20-50 sections)		
Charging Capacity	20%*Pout		
Bypass			
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
Voltage Range	default-20%~+15%;upper limit:+10%,+15%,+20%,+25%;lower limit:-10%,-15%,-20%,-30%,-40%		
Overload	110%,long time operation;110%<load<125%,5 mins 125%<load<150%,1min;>150%,1 second		
Inverterr			
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
Rate Freq.	50/60Hz		
Output PF	1		
Voltage Accuracy	±1.0%		
Load Response	<5%(20%-80%-20%step load)		
Recovery Time	<20ms(0%-100%-0%step load)		
Output THDu	<1%(linear load),<5%(non-linear load according to IEC62040-3)		
Overload	110%,1hour;125%,10 mins;150%,1 min;>150%,200ms		
Frequency Accuracy	0.1%		
Synchronize Window	Settable,±0.5Hz-±5Hz,default±3Hz		
Slew Rate	Settable,0.5Hz/S-3Hz/S,default 0.5Hz/S		
Phase Accuracy	120°±0.5°		
System			
Efficiency	Normal Mode≥96.5%;Battery Mode≥96.5%		
Display	LED+7inch touch LCD		
Certification-Safety	IEC62040-1,IEC60950-1		
Certification-EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT);IEC61000-4-5(Surge)		
IP Degree	IP20		
Configuration	USB,RS232,RS485,Dry contact,Cold start		
Option	SNMP card,Extended dry contact,Parallel kit,APPWiFi/Bluetooth		
Environment	0-40℃(operation);-25~70(storage);0-95%(Humidity,non-condensing)		
Noise(dB)(1meter)	65dB@100%load,62dB@45%load		
Dimention			
Cabinet(W*D*H)mm	442*710*307(7U)	442*710*485(11U)	442*858*883(20U)
Module(W*D*H)mm	400*495*86(2U)		

Power Guard

PGM Series Rack-mounted Modular UPS
Three Phase In Three Phase Out
15~150KVA

Zero Switch

The UPS will switch to battery mode when the mains power is normal Zero time, which can effectively ensure the safety and reliability of the instrument.

Active Input Power Factor Correction (PFC)

Active power factor correction with digital control achieves ≥0.99 input power factor, preventing grid pollution, energy-saving, and cost-reducing.

Load power factor of

Adapts to the characteristics of most current carrying capacity of the machine.

DSP

DSP digital control technology

All power conversion links such as rectification, inverter, charging, and discharge are digitally controlled.



Main Feature

- Standard cabinet in-row rack mounting
- supports mounting methods: rack mounting, tower mounting
- Device-level protection for extreme reliability and greater environmental adaptability;
- Standard 7-inch LCD touch screen with colorful graphic display. Easy to operate, friendly man-machine interface;
- Extreme power density design, 25kW module only 2U, easy to install, space saving, good maintenance;
- Support battery without centerline configuration (optional), more diversified application scenarios.

Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

Model PGM	30/15RTL	40/20RTL	50/25RTL	60/15RTL	80/20RTL	100/25RTL	090/15RTL	120/20RTL	150/25RTL
Rate Power	30KVA/30K	40KVA/40K	50KVA/50K	60KVA/60K	80KVA/80K	100KVA/10	90KVA/90K	120KVA/12	150KVA/15
Main input									
Input	(3P+N+PE)								
Rate	380/400/415VAC(L-L);220/230/240VAC(L-N)								
Rate Freq.	50/60Hz								
Input PF	>0.99								
Current	THDi<3%(100%Linear load)								
Voltage	304-478VAC(L-L)full load;304-228VAC(L-L)power derate from 100%to 50%								
Freq.Range	40-70Hz								
Battery									
Rate	±240VDC(adjustable for30-50 sections)								
Charging	20%*Pout								
Bypass									
Rate	380/400/415VAC(L-L);220/230/240VAC(L-N)								
Voltage	default-20%~+15%;upper limit:+10%,+15%,+20%,+25%;lower limit:-10%,-15%,-20%,-30%,-40%								
Overload	110%,long time operation;110%<load<125%,5 mins								
Inverter									
Rate	380/400/415VAC(L-L);220/230/240VAC(L-N)								
Rate Freq.	50/60Hz								
Output PF	1								
Voltage	±1.0%								
Load	<5%(20%-80%-20%step load)								
Recovery	<20ms(0%-100%-0%step load)								
Output	<1%(linear load),<5%(non-linear load according to IEC62040-3)								
Overload	110%,1hour;125%,10 mins;150%,1min;>150%,200ms								
Frequency	0.1%								
Synchroniz	Settable,+0.5Hz-±5Hz,default+3Hz								
Slew Rate	Settable,0.5Hz/S-3Hz/S,default 0.5Hz/S								
Crest	3:1								
Phase	120°±0.5°								
System									
Efficiency	Normal Mode≥96.5%;Battery Mode≥96.5%								
Display	LED+7inch touch LCD								
Certificatio	IEC62040-1,IEC60950-1								
Certificatio	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT);IEC61000-4-5(Surge)								
IP Degree	IP20								
Configurati	USB,RS232,RS485,Dry contact,Cold start								
Option	SNMP card,Extended dry contact,Parallel kit,LBS,APPWiFi/Bluetooth								
Environme	0-40℃(operation);-25~70(storage);0-95%(Humidity,non-condensing)								
Noise(dB)(65dB@100%load,62dB @45%load								
Dimention									
Cabinet(W	442*710*307(7U)			442*858*705(16U)				442*858*883(20U)	
Module(W*	400*495*86(2U)								

Power Guard

PGM Series Tower-mounted Modular UPS
Three Phase In Three Phase Out
30~300KVA

Zero Switch

The UPS will switch to battery mode when the mains power is normal. Zero time, which can effectively ensure the safety and reliability of the instrument.

Active Input Power Factor Correction (PFC)

Digital-controlled active power factor correction achieves ≥ 0.99 input power factor for grid protection, energy saving and cost reduction.

Real time monitoring and alarm

Detect important parameters in real time, and immediately give an alarm if any abnormality is found.

Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.



Product Description

PGM series Tower-modular UPS provides the most compact footprint of less than 2 m² with maximum capacity of 900kVA. With best reliability and high performance, it has been leading the domestic market for years. CNM series is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.

Main Feature

- Support for mounting: rack-mount, tower-mount. 300k model can support micro-module in-line installation;
- Device-level protection for extreme reliability and greater environmental adaptability;
- Extra-large LCD touch screen with colorful graphic display. Easy to operate, friendly man-machine interface;
- Extreme power density design, 30kW module only 2U
- Real-time monitoring of the temperature of key devices, early warning, convenient operation and maintenance.



Model PGM	120/30TTL	180/30TTL	300/30TTL
Rate Power	120KVA/120KW	180KVA/180KW	300KVA/300KW
Main input			
Input	(3P+N+PE)		
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
Rate Freq.	50/60Hz		
Input PF	>0.99		
Current Distortion	THDi<3%(100%Linear load)		
Voltage Range	304-478VAC(L-L)full load;304-228VAC(L-L)power derate from 100%to 50%		
Freq.Range	40-70Hz		
Battery			
Rate voltage	±240VDC(adjustable for30-50 sections)		
Charging Capacity	20%*Pout		
Charging Accuracy	±1%		
Bypass			
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
Voltage Range	default-20%~+15%;upper limit:+10%,+15%,+20%,+25%;lower limit:-10%,-15%,-20%,-30%,-40%		
Overload	110%,long time operation;110%<load<125%,5 mins		
Inverter			
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
Rate Freq.	50/60Hz		
Output PF	1		
Voltage Accuracy	±1.0%		
Load Response	<5%(20%-80%-20%step load)		
Recovery Time	<20ms(0%-100%-0%step load)		
Output THDu	<1%(linear load),<5%(non-linear load according)		
Overload	110%,1hour;125%,10mins;150%,1 min;>150%,200ms		
Frequency Accuracy	0.1%		
Synchronize Window	Settable,+0.5Hz-±5Hz,default+3Hz		
Slew Rate	Settable,0.5Hz/S-3Hz/S,default 0.5Hz/S		
Crest Factor	3:1		
Phase Accuracy	120°±0.5°		
System			
Efficiency	Normal Mode≥96.5%;Battery Mode≥96.5%		
Display	LED+7inch touch LCD	LED+10 inch touch LCD	
Certification-Safety	IEC62040-1,IEC60950-1		
Certification-EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT);IEC61000-4-5(Surge)		
IP Degree	IP20		
Configuration	USB,RS232,RS485,Dry contact,Cold start		
Option	SNMP card,Extended dry contact,Parallel kit,LBS,APPWiFi/Bluetooth		
Environment	0-40℃(operation);-25~70(storage);0-95%(Humidity,non-condensing)		
Noise(dB)(1meter)	65dB@100%load,62dB@45%load		
Dimention			
Cabinet(W*D*H)mm	482*816*796(18U)	482*816*1018(23U)	600*1000*2000
Module(W*D*H)mm	440*678*85(2U)		

Power Guard

PGM Series Tower-mounted Modular UPS
Three Phase In Three Phase Out
50~600KVA

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS.

Load power factor of 0.9

Adapts to the characteristics of most current electrical equipment and increases the load carrying capacity of the machine.

Grid friendly

Energy saving green power with high input power factor and low THDI.



Main Feature

- High power density, compared with similar products in the industry to save more than 10% of the floor space
- Cost-effective, support the battery without centerline design (optional), friendly to adapt to lithium-ion batteries
- Ultra-strong environmental adaptation, system-level + board-level + device-level comprehensive protection, extreme reliability
- Extra large LCD touch screen with colorful graphic display, easy to operate and friendly human-machine interface
- Highly integrated PCB design to improve product assemblability and reduce human failure rate
- Optimized cooling layout, higher design margins, 70% load capacity with single fan failure



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

Model PGM	200/50TTL	300/50TTL	400/50TTL	500/50TTL	600/50TTL
Rate Power	200KVA	300KVA	400KVA	500KVA	600KVA
Main input					
Input	(3P+N+PE)				
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)				
Rate Freq.	50/60Hz				
Input PF	>0.99				
Current Distortion	THDi<2%(100%Linear load)				
Voltage Range	304-478VAC(L-L)full load;304-228VAC(L-L)power derate from 100%to 50%				
Freq.Range	40-70Hz				
Battery					
Rate voltage	±240VDC(adjustable for 30-50 sections) Optional480VDC(adjustable for 30-50 sections)				
Charging Capacity	20%*Pout				
Charging Accuracy	±1%				
Bypass					
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)				
Voltage Range	default-20%~+15%;upper limit:+10%,+15%,+20%,+25%;lower limit:-10%,-15%,-20%,-30%,-40%				
Overload	125%,long time	110%,long time operation;110%<load<125%,5 mins			
Inverter					
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)				
Rate Freq.	50/60Hz				
Output PF	1				
Voltage Accuracy	±1.0%				
Load Response	<5%(20%-80%-20%step load)				
Recovery Time	<20ms(0%-100%-0%stepload)				
Output THDu	<1%(linear load),<5%(non-linear load according to IEC 62040-3)				
Overload	110%,1hour;125%,10 mins;150%,1 min;>150%,200ms				
Frequency Accuracy	0.1%				
Synchronize Window	Settable,+0.5Hz-±5Hz,default+3Hz				
Slew Rate	Settable,0.5Hz/S-3Hz/S,default 0.5Hz/S				
Crest Factor	3:1				
Phase Accuracy	120°±0.5°				
System					
Efficiency	Normal Mode≥97%;Battery Mode≥97%				
Display	LED+7inch touch	LED+10 inch touch LCD			
Certification-Safety	IEC62040-1,IEC60950-1				
Certification-EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT);IEC61000-4-5(Surge)				
IP Degree	IP20				
Configuration	USB,RS232,RS485,Dry contact,Cold start,Air filter				
Option	SNMP card,Extended dry contact,Parallel kit,SPD,APPWiFi/Bluetooth,Up air supply components				
Environment	0-40℃(operation);-25~70(storage);0-95%(Humidity,non-condensing)				
Noise(dB)(1meter)	68dB@100%load,65dB @45%load				
Wiring Method	Front top feed,or optionalfront bottom		Compatible with top and bottom feeds		
Dimention					
Cabinet(W*D*H)mm	600*750*1600	600*750*2000	600*850*2000	1200*850*2000	
Module(W*D*H)mm	440*475*140				

Power Guard

PGM Series Tower-mounted Modular UPS
Three Phase In Three Phase Out
60~600KVA

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS.

Load power factor of 0.9

Adapts to the characteristics of most current electrical equipment and increases the load carrying capacity of the machine.

Grid friendly

Energy saving green power with high input power factor and low THDi.



Main Feature

- DSP full digital control, rectifier, inverter, charging, discharging. All power conversion links are digitally controlled;
- Device-level protection for extreme reliability and greater environmental adaptability;
- Extra large color LCD touch screen-10 inch LCD touch screen with colorful graphic display, easy to operate and friendly human-machine interface
- Intelligent system self-diagnostic program, rich fault records, large-capacity history record storage space;
- Maximum capacity support 1.8MW, the best choice for ultra-large data centers.



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

Model PGM	300/60TTL	600/60TTL
Rate Power	300KVA/300KW	600KVA/600KW
Main input		
Input	(3P+N+PE)	
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)	
Rate Freq.	50/60Hz	
Input PF	>0.99	
Current Distortion	THDi<3%(100%Linearload)	
Voltage Range	304-478VAC(L-L)full load;304-228VAC(L-L)power derate from 100%to 50%	
Freq.Range	40-70Hz	
Battery		
Rate voltage	±240VDC(adjustable for 30-50 sections)	
Charging Capacity	20%*Pout	
ChargingAccuracy	±1%	
Bypass		
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)	
Voltage Range	default-20%~+15%;upper limit:+10%,+15%,+20%,+25%;lower limit:-10%,-15%,-20%,-30%,-40%	
Overload	110%,long time operation;110%<load<125%,5 mins	
Inverter		
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)	
Rate Freq.	50/60Hz	
Output PF	1	
Voltage Accuracy	±1.0%	
Load Response	<5%(20%-80%-20%step load)	
Recovery Time	<20ms(0%-100%-0%step load)	
Output THDu	<1%(linear load),<5%(non-linear load according to IEC62040-3)	
Overload	110%,1hour;125%,10 mins;150%,1 min;>150%,200ms	
Frequency Accuracy	0.1%	
Synchronize Window	Settable,+0.5Hz-±5Hz,default+3Hz	
Slew Rate	Settable,0.5Hz/S-3Hz/S,default 0.5Hz/S	
Crest Factor	3:1	
Phase Accuracy	120°±0.5°	
System		
Efficiency	Normal Mode≥97%;Battery Mode≥97%	
Display	LED+10 inch touch LCD	
Certification-Safety	IEC62040-1,IEC60950-1	
Certification-EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT);IEC61000-4-5(Surge)	
IP Degree	IP20	
Configuration	USB,RS232,RS485,Dry contact,Cold start,Air filter	
Option	SNMP card,Extended dry contact,Parallel kit,SPD,APPWiFi/Bluetooth,	
Environment	0-40℃(operation);-25~70(storage);0-95%(Humidity,non-condensing)	
Noise(dB)(1meter)	72dB@100%load,69dB @45%load	
Dimention		
Cabinet(W*D*H)mm	600*1000*2000	1200*1100*2000
Module(W*D*H)mm	442*659*174	

Power Guard

PGM Series Tower-mounted Modular UPS
Three Phase In Three Phase Out
100~1200KVA

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS.

Load power factor of 0.9

Adapts to the characteristics of most current electrical equipment and increases the load-carrying capacity of the machine.

Grid friendly

Energy saving green power with high input power factor and low THDI.



Main Feature

- DSP full digital control, rectifier, inverter, charging, discharging. All power conversion links are digitally controlled;
- Device-level protection for extreme reliability and greater environmental adaptability;
- Extra large color LCD touch screen-10 inch LCD touch screen with colorful graphic display, easy to operate and friendly human-machine interface
- Intelligent system self-diagnostic program, rich fault records, large-capacity history record storage space;
- Maximum capacity support 1.8MW, the best choice for ultra-large data centers.



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

Model PGM	600/100TTL	800/100TTL	1000/100TTL	1200/100TTL
Rate Power	600KVA/600KW	800KVA/800KW	1000KVA/1000KW	1200KVA/1200KW
Main input				
Input	(3P+N+PE)			
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)			
Rate Freq.	50/60Hz			
Input PF	>0.99			
Current Distortion	THDi<3%(100%Linear load)			
Voltage Range	304-478VAC(L-L)full load;304-228VAC(L-L)power derate from 100%to 50%			
Freq.Range	40-70Hz			
Battery				
Rate voltage	±240VDC(adjustable for 30-50 sections)Optional480VDC(adjustable for 30-50 sections)			
Charging Capacity	20%*Pout			
ChargingAccuracy	±1%			
Bypass				
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)			
Voltage Range	default -20%~+15%;upper limit:+10%,+15%,+20%,+25%;lower limit:-10%,-15%,-20%,-30%,-40%			
Overload	110%,long time operation;110%<load<125%,5 mins			
Inverter				
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)			
Rate Freq.	50/60Hz			
Output PF	1			
Voltage Accuracy	±1.0%			
Load Response	<5%(20%-80%-20%step load)			
Recovery Time	<20ms(0%-100%-0%step load)			
Output THDu	<1%(linear load),<5%(non-linear load according to IEC62040-3)			
Overload	110%,1hour;125%,10 mins;150%,1 min;>150%,200ms			
Frequency Accuracy	0.1%			
Synchronize Window	Settable,+0.5Hz-±5Hz,default+3Hz			
Slew Rate	Settable,0.5Hz/S-3Hz/S,default 0.5Hz/S			
Crest Factor	3:1			
Phase Accuracy	120°±0.5°			
System				
Efficiency	Normal Mode≥97%;Battery Mode≥97%			
Display	LED+10 inch touch LCD			
Certification-Safety	IEC62040-1,IEC60950-1			
Certification-EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT);IEC61000-4-5(Surge)			
IP Degree	IP20			
Configuration	USB,RS232,RS485,Dry contact,Cold start,Air filter			
Option	SNMP card,Extended dry contact,Parallel kit,SPD,APPWiFi/Bluetooth,			
Environment	0-40℃(operation);-25~70(storage);0-95%(Humidity,non-condensing)			
Noise(dB)(1meter)	72dB@100%load,69dB @45%load			
Dimention				
Cabinet(W*D*H)mm	800*1000*2000		1200*1100*2000	
Module(W*D*H)mm	475*705*140			

All-in-One
PX Series Intelligent Power Distribution
System for data center

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS.

Grid friendly

Energy saving green power with high input power factor and low THDi.

Energy saving

Under normal use, the product will not cause harm to people and the environment.



Product Description

Coolnet Digital Energy Data Center All-in-one Intelligent Power Distribuon System is based on the new intelligent modular UPS plaorm. It's a highly integrated modular power supply and distribuon system for data centers, integrang UPS host, IT distribuon, air-condioning distribuon (or without it as per the later descripon), lighng distribuon, ulity ATS, UPS input and output distribuon into one cabinet. It features easy maintenance, high reliability and efficient land use, providing a safe, stable and pure green power supply for data center loads.

Main Feature

- Maximum support for 180kVA integrated UPS power supply and distribuon
- Built in 30kVA/30kW module, with a height of only 2U
- The system capacity supports phased deployment, power module, bypass module can be quickly replaced, easy to maintain.
- UPS, UPS input and output cabinets, precision power distribution cabinets and 3 cabinets are integrated, saving about 68% of floor space and more than 55% of installation hours.
- System efficiency up to 96%, energy efficient
- Intelligent detection of distribution branch, full display of power supply link.

Model PX	150/25	180/30-I
Input		
Rated Voltage	380/400/415Vac,50/60Hz,3ph+N+PE	
Voltage Range	304-478VAC(L-L)full load;304-228VAC(L-L)power derate from 100%to 55%	
Frequency Range	40Hz~70Hz	
Power Factor(PF)	Full load>0.99,half load>0.98	
output		
Rated Voltage	380/400/415Vac,50/60Hz,3ph+N+PE	
Power Factorrr	1	
Maximum peak factor of	3:1	
System Parameter		
System Efficiency	96%(Linear load)	
Module Average Flow	≤2%	
Wiring Method	Default top inlet and top outlet,support bottom alignment	
AC lightning protection	Lightning protection class C	
Configuration Parameters		
Rated capacity	25-150kVA	30-180kVA
input method	MCCB or ATS	MCCB or ATS
Mains supply ofups	City Power:400A+UPS:3*250A	City Power:630A+UPS:3*400A
IT power distribution	40A*24*2	40A*24*2
Air conditioning	63A*8	63A*8
Lighting Power	10A*3	10A*3
Work Environment		
Operation Temperature	0~40℃	
Storage Temperature	-40~70℃(Battery not included)	
Relative Humidity	5~95%Non-condensing	
Altitudes	Start to referto IEC62040-3 standard for frequency reduction above	
IP Degree	IP20	
Noise(dB)(1 meter)	The noise level is measured at ambient temperature of 25 degrees	
Dimention		
W*D*Hmm	600*1100/1200*2000	

Power Guard

PGH Series High Frequency online Tower UPS
Single Phase In Single Phase Out
1~10KVA

Frequency Adaptive Systems

To meet the requirements of different electrical systems, it can be set Fixed or automatic recognition to suit 50Hz/60Hz.

Wide input voltage and frequency range

Wide input voltage & frequency range ensures stable mains operation in harsh power environments, reducing battery discharges and extending lifespan.

Energy saving

Under normal use, the product will not cause harm to people and the environment.

Active Input Power Factor Correction (PFC)

Active power factor correction via digital control achieves ≥0.99 input power factor to prevent grid pollution, save energy and cut system costs.

Zero Switch

The UPS will switch to battery mode when the mains power is normal Zero time, which can effectively ensure the safety and reliability of the instrument.

DSP

DSP digital control technology

All power conversion links such as rectification, inverter, charging, and discharge are digitally controlled.



Product Description

PGH series is based on on-line double conversion technology, which is an ideal power supply solution for small-capacity scenarios, which can completely eliminate all kinds of power grid problems. Support tower installation, standard machine built-in battery.

Main Feature

- True double-conversion
- Microprocessor control optimizes reliability
- Input Power Factor Correction
- Output Power Factor 0.8
- Wide input voltage (110V-300 V)
- Efficient frequency conversion mode
- ECO mode for energy saving (Only available for 1-3KVA)
- Generator compatible
- The exquisite SNMP card can be perfectly monitored alone or together with USB and RS232
- Through the display simple operation control, and comprehensive display monitoring UPS status

Model PGH	1101TT(L)		1102TT(L)		1103TT(L)		1106TT(L)		1110TT(L)		
Capacity	1KVA/0.8 KW		2KVA/1.6KW		3KVA/2.4KW		6KVA/4.8KW		10KVA/8KW		
Input											
Connection Mode		Single phase with ground									
Nominal Voltage		200/208/220/230/240VAC						208/220/230/240VAC			
Voltage Range		110-300VAC at 50%load; 160-280 VAC at 100%load						110-300VAC at 50%load; 176-300 VAC at 100%load			
Frequency range		40Hz~70Hz						46~54 Hz/56~64 Hz			
Power factor		>0.8@100%load									
Output											
Output Voltage		200/208/220/230/240VAC						208/220/230/240VAC			
Voltage range(Battery mode)		±1%									
Frequency	SYN Correction Range	47~53 Hz/57~63 Hz						46~54 Hz/56~64Hz			
	Battery Model	50 Hz±0.25 Hz/60Hz±0.3 Hz						50 Hz/60Hz±0.1Hz			
Current Crest Ratio		3:01									
Harmonic Distortion		≤3%THD (Linear Load) ≤6%THD(Non-linear Load)						≤3%THD (Linear Load) ≤5%THD(Non-linear Load)			
Transfer Time	City Electricity/Battery	Zero									
	Inverter/Bypass	4 ms(Typical)						— —			
Waveform(Batt.Mode)		Pure Sinewave									
Battery Type											
Battery Internal (Standard Unit)	Battery Type	12V/9AH/7AH									
	Quantity	2	3	4	6	16	20	16	20		
	Charging Current	1.0A(max.)						Preset:1.0A±10%,max.:2.0A±10%			
	Charging Voltage	27.4 VDC±1%	41.0 VDC±1%	54.7 VDC±1%	82.1 VDC±1%	218.4 VDC ±1%	273 VDC±1%	218.4 VDC±1%	273 VDC±1%		
Battery External (Long Back up Unit)	Battery Type	According to the actual application with a number of battery boxes									
	Quantity	2	3	4	6	6	8	16~20(Adjustable)			
	Charging Current	1A/2A/4A/6A(Adjustable)						1A/2A/4A/6A (Adjustable,6A is only available for 16pcs batteries)			
	Charging Voltage	27.4 VDC±1%	41.0 VDC±1%	54.7 VDC±1%	82.1 VDC±1%	82.1 VDC±1%	109.4 VDC±1%	218.4 VDC±1%	273 VDC ±1%	218.4 VDC±1%	273 VDC±1%
Efficiency											
City Electricity Mode		88%		89%		90%		92%		93%	
Battery Mode		83%		87%		88%		90%		91%	
Display Interface											
LCD/LED		Load level,Battery level,AC mode,Battery mode,Bypassmode,and Fault indicators									
Alarm											
Battery Mode		Sounding every 4 seconds									
Low Battery		Sounding every second									
Overload		Sounding every second									
Fault		Continuously sounding									
Control Management											
Smart RS-232/USB		Supports Windows@2000/2003/XP/Vista/2008,Windows@7/8/10,Linux and MAC									
Optional SNMP		Support SNMP Internet Management									
Environment											
Relative Humidity		20-90%RH @0-40℃(Non-condensing)						0-95%RH @0-40℃(Non-condensing)			
Noise Level		<50dB @1M						<55dB @1M		<58dB@1M	
Physical											
Standard Unit	Dimension: W*D*H(mm)	145*282*220	145*397*220	145*397*220	190*421*318	190*369*688	190*442*688				
	Net Weight(kg)	8.7	11.5	15.7	24.6	61	74	66	76		
Long Backup	Dimension:	145*282*220		145*397*220		190*369*318		190*442*318			
	Net Weight(kg)	3.9	4.1	6.9	7.4	12		16			

Power Guard

PGH Series High Frequency online Tower UPS
Single Phase In Single Phase Out
1~10KVA

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;

Grid friendly

Energy saving green power with high input power factor and low THDI.

Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.



Main Feature

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage
- Converter mode available
- ECO mode for energy saving only available for 1-3KVA models
- Adjustable battery numbers
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together
- Comprehensive display allows easy monitoring and access of UPS status

Optional sockets

Can be customized on demand

Europe

Universal

USA

British

Australia

South Africa

Model PGH		1101TT(L)		1102TT(L)		1103TT(L)		1106TT(L)		1110TT(L)		
Capacity		1KVA/0.9KW		2KVA/1.8KW		3KVA/2.7KW		6KVA/5.4W		10KVA/9KW		
Input												
Connection Mode		Single phase with ground										
Nominal Voltage		110/115/120/127VAC 208/220/230/240VAC						208/220/230/240VAC				
Voltage Range		60-145 VAC/120-300 VAC(Based on load at 50%) 90-145 VAC/180-300 VAC(Based on load at 100%)						110-300 VAC(Based on load at 50%) 176-300 VAC(Based on load at 100%)				
Frequency Range		40 Hz~70 Hz						46~54 Hz/56~64 Hz				
Power Factor		>0.9@100%load										
Output												
Output Voltage		110/115/120/127VAC 208/220/230/240VAC						208/220/230/240VAC				
Voltage Regulation		±1%										
Frequency	SYN Correction Range		47~53 Hz/57~63 Hz						46~54 Hz/56~64 Hz			
	Battery Model		50 Hz/60Hz±0.5%						50 Hz/60Hz±0.1 Hz			
Current Crest Ratio		3:01										
Harmonic Distortion		≤3%THD (Linear Load) ≤6%THD(Non-linear Load)						≤3%THD(Linear Load) ≤5%THD(Non-linear Load)				
Transfer Time	City Electricity/Battery		Zero									
	Inverter/Bypass		4 ms(Typical)						Zero			
Waveform(Batt.Mode)		Pure Sinewave										
Battery Type												
Battery Internal (Standard Unit)	Battery Type		12V/9Ah		12V/9Ah		12V/9Ah		12V/9Ah			
	Quantity		2	3	4	6	6	16	20	16	20	
	Typical Recharge Time		4 hours recover to 90%capacity						9 hours recover to 90%capacity			
	Charging Current		1A						1A/2A			
	Charging Voltage		27.4VDC ±1%	41.0VDC ±1%	54.7VDC ±1%	82.1VDC ±1%	82.1VDC ±1%	218.4 VDC±1%	273 VDC ±1%	218.4VDC ±1%	273 VDC ±1%	
Battery External (Long Back up Unit)	Battery Type		Depending on applications									
	Quantity		3		6		6		16~20(Adjustable)			
	Charging Current		1.0A/2.0A/4.0A/6.0 A						1A/2A/4A/6A(Adjustable,6A is only available for 16pcs batteries)			
	Charging Voltage		41.0 VDC±1%		82.1 VDC±1%		82.1 VDC±1%		273 VDC±1%(Based on 20pcs batteries)			
Efficiency												
City Electricity Mode		88%		89%		90%		92%		93%		
Battery Mode		83%		87%		88%		90%		91%		
Display Interface												
LCD		Load level,Battery level,City Electricity Mode,Battery mode,Bypass mode,and Fault indicators										
Alarm												
Battery Mode		Sounding every 4 seconds										
Low Battery		Sounding every second										
Overload		Sounding twice every second										
Fault		Continuously sounding										
Control Management												
Smart RS-232/USB		Supports Windows2000/2003/XP/Vista/2008,Windows7/8/10,Linux and MAC										
Optional SNMP		Power management from SNMP manager and web browser										
Environment												
Relative Humidity		20-90 %RH@0-40℃(Non-condensing)						0-95%RH @0-50℃ (Non-condensing)		0-95%RH @0-40℃ (Non-condensing)		
Noise Level		<50dB @1M						<55dB@1M		<58dB @1M		
Physical												
Standard Unit	Dimension: W*D*H(mm)		145*282*220	145*397*220	145*397*220	190*421*318	190*421*318	190*369*688	190*442*688			
	Net Weight(kg)		9.8	11.4	17	26.2	27.6	61	74	66	76	
LongBatck up	Dimension: W*D*H(mm)		145*282*220		145*397*220			190*369*318		190*442*318		
	Net Weight(kg)		4.4		6.8		7.6	12		16		

Power Guard

PGH Series High Frequency online Tower UPS
Single Phase In Single Phase Out
1~3KVA

Load power factor of 0.9
Adapts to the characteristics of most currentelectrical equipment and increases the loadcarrying capacity of the machine.

Frequency Adaptive Systems
To meet the requirements of differen-telectrical systems,it can be set Fixed orautomatic recognition to suit 50Hz/60Hz.

Can be used with agenerator
The wide range of input voltages andfrequencies isolates the bad power generatedby the generator to provide a pure,stablepower supply to the load.

Energy saving
Under normal use,the product will not causeharm to people and the environment.



Main Feature

- High efficiency:92%for1kva,93%for 2kva,94%for 3kva
- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction 0.99
- Output power factor 1.0
- 50/60Hz frequency converter mode
- Wide input voltage(110V-300 V)
- ECO mode for energy saving
- Smart battery charger design to optimize battery performance
- Comprehensive display allows easy monitoringand access of UPS status
- SNMP/USB/RS-232 multiple communications
- Generator compatible

Applications

Government,Finance,IT,Education,Transportation,Broadcasting,Medical,Energy,etc.

Model PGH		1101TT	1102TT	1103TT
Phase		Single phase with ground		
Capacity		1KVA/1KW	2KVA/2KW	3KVA/3KW
Input				
Rate Voltage		200*/208*/220/230/240 VAC		
Voltage Range		110-300 VAC(Based on loadat50%);160-300 VAC(Basedonloadat 100%)		
Frequency Range		40-70Hz		
Power Factor		≥0.99@nominal voltage(100%load)		
Harmonic Distortion (THDi)		≤5%@nominal voltage(100%load)		
Output				
Rated voltage		200*/208*/220/230/240 VAC		
Voltage range(Battery Mode)		±1%		
Frequeny	SYN Correction Range	47~53 Hzor57~63Hz		
	Battery Model	50 Hz±0.1Hz(60Hz±0.1Hz)		
Current Crest Ratio		3:1		
Harmonic Distortion		≤2%THD(Linear Load);≤5%THD(Non-linear Load)		
Transfer Time	AC to DC	Zero		
	Inverter/Bypass	4 ms(Typical)		
	ECO to Battery mode	8ms(Typical),10 ms(max)		
Waveform(Batt.Mode)		Pure Sinewave		
Battery/Charger				
Battery Type		12V/9Ah		
Quantity		2	4	6
Typical Recharge Time		4hours recover to 90%capacity for internal battery		
Charging Current(CC)		1.5A		
Charging Voltage(FV)		27.4VDC±1%	54.8VDC±1%	82.2VDC±1%
Efficiency				
City Electricity Mode		96%	97%	97%
		92%	93%	94%
Battery Mode		86%	88%	91%
Display Interface				
LCD		Loadlevel,Battery level,ACmode,Battery mode,Bypassmode, andFault indicator ViaLCD		
Control Management				
Smart RS-232/USB		Supports Windows2000/2003/XP/Vista/2008,Windows7/8/10,Linux and MAC		
Optional SNMP		Power management from SNMP manager and web browser		
Environment				
Humidity		20-90%RH@0-50℃(non-condensing)		
Noise Level		<50dB @1m with Fan speed control		
Standard				
EMC/Safety		CE(EMC:EN62040-2C2)		
Physical				
Dimension:W*D*H(mm)		145*282*220	145*397*220	190*421*318
Net Weight(kg)		9.8	17	26.2

Power Guard

PGH Series High Frequency online Tower UPS
Single Phase In Single Phase Out
6~10KVA

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS.

Grid friendly

Energy saving green power with high input power factor and low THDi.

Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.



2.8"color touched LCD(option)

Main Feature

- Strong overload capability
- High efficiency upto 94%
- Built-in back-feed relay
- Built-in OVCD protection
- Large charger up to 8A for longrun model
- Output power factor1
- Wide input voltage range(110-300 VAC)
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Emergency power off function(EPO)
- ECO mode forenergy saving
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional 2.8"colortouched LCD

Model PGH		1106TT(L)		1110TT(L)	
Phase		1 phase in/1 phase out			
Capacity		6KVA/6KW		10KVA/10KW	
Input					
Rate Voltage		208/220/230/240 VAC			
Voltage Range		110~300VAC±3%at 50%load;176~300VAC±3%at 100%load			
Frequency Range		46~54 Hz or56~64 Hz;40~70Hz (In generator mode)			
Power Factor		≥0.99@fullload			
Harmonic Distortion(THDi)		<4%@100%Load;<6%@50%Load			
Output					
Rated voltage		208/220/230/240 VAC			
Voltage range(Battery Mode)		±1%			
Frequency	SYN Correction Range	46~54 Hz or 56~64Hz			
	Battery Model	50 Hz±0.1Hzor60Hz±0.1Hz			
Current Crest Ratio		3:1(Max)			
Harmonic Distortion(THDv)		≤1%THD(linear load);≤4%THD(Non-linear load)			
Transfer Time	City Electricity /Battery	Zero			
	Inverter/Bypass	Zero			
Waveform(Batt.Mode)		Pure Sinewave			
Overload	City Electricity Mode	100-105%Continue,105-125%for 10			
	Battery Mode	100-110%3min,110-130%for 0.5min,>130%immediately			
Battery Type					
Battery Internal (Standard Unit)	Battery Type	12V/7Ah		12V/9Ah	
	Quantity	16	20	16	20
	Typical Recharge Time	9hours recover to 90%capacity			
	Charging Current	1.0A			
	Charging Voltage	218.4 VDC±1%	240VDC±1%	218.4 VDC±1%	240VDC±1%
Battery External (Long Back up Unit)	Battery Type	Lead Acid			
	Quantity	16-20**			
	Charging Current	1A/2A/4A/6A/8A			
	Charging Voltage	(13.65VDCx battery number)±1%			
Efficiency					
City Electricity Mode		94%			
Battery Mode		92%			
Display Interface					
LCD		UPS status,load capacity,battery capacity,input/output voltage, discharge time and fault indication			
Control Management					
Smart RS-232/USB		Supports Windows2000/2003/XP/Vista/2008,Windows7/8/10,Linux and MAC			
Optional SNMP		Power management from SNMP manager and web browser			
Environment					
Temperature and Humidity		20-95%RH @0-40℃(Non-condensing)			
Noise Level		<55dB@1m		<58dB @1m	
Physical					
Standard Unit	Dimension:	190*442*688		190*442*688	
	Net Weight(kg)	51.5	60.5	60	70
LongBackup	Dimension:	145*435*238			
	Net Weight(kg)	8.6		9.7	

Power Guard

PGH Series High Frequency online Tower UPS
Three Phase In Single Phase Out
10~30KVA

Load power factor of 0.8

Adapts to the characteristics of most current electrical equipment and increases the load carrying capacity of the machine.

Real time monitoring and alarm

Detect important parameters in real time, and immediately give an alarm if any abnormality is found.

Extended functions

Intelligent slots support expandable functions via IS-B, AS400, C-monitoring, SNMP, RS485, or EL environmental monitoring cards.

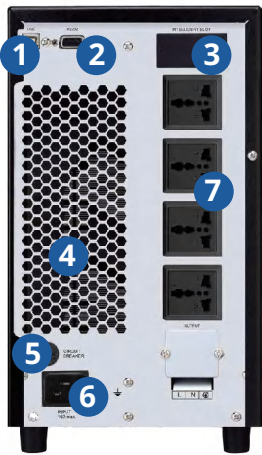
Energy saving

Under normal use, the product will not cause harm to people and the environment.



Main Feature

- True double-conversion
- Output power factor 0.8
- Wide input voltage(190V-520V)
- 50Hz Frequency converter mode
- ECO mode efficiency
- EPO Emergency Shutdown Button
- Generator compatible
- Charger capacity extended to 8A can run longer
- SNMP/USB/RS-232 communications
- Three stage charging design to optimize battery performance
- Optional maintenance bypass switch
- Compatible with single input



Back Panel

- 1.USB interface(Optional)
- 2.RS-232 interface
- 3.Smart expansion slots
- 4.Cooling holes
- 5.Input circuit breaker
- 6.Input socket
- 7.Output sockets

Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

Model PGH		3110TT(L)		3115TT(L)		3120TT(L)		3130TT(L)	
Capacity		10KVA/8KW		15KVA/12KW		20KVA/16KW		30KVA/24KW	
Input									
Connection Mode		Three-phase +four wire							
Nominal Voltage		3×400 VAC(3Ph+N)							
Voltage Range		190-520vac(3 phase)@50%load 305-520vac(3 phase)@100%load							
Frequency range		46~54 Hz/56~64Hz							
Output									
Output Voltage		208/220/230/240VAC							
Voltage range(Battery Mode)		±1%							
Frequency	SYN Correction Range	46~54 Hz @50Hz system/56~64 Hz@60Hz system							
	Battery Model	50 Hz±0.2Hz/60Hz±0.2Hz							
Current Crest Ratio		3:1(max.)							
Harmonic Distortion		≤3%THD(Linear Load)≤5%THD(Non-linear Load)							
Transfer Time	City Electricity/Battery	Zero							
	Inverter/Bypass	Zero							
Waveform(Batt.Mode)		Pure Sinewave							
Battery Type									
Battery Internal (Standard Unit)	Battery Type	12V/9AH							
	Quantity	16	20	16	20	16	20	— —	
	Typical Recharge Time	9 hours recover to 90%capacity							
	Charging Current	Preset 1A,1A/2A/4A(Adjustable)							
	Charging Voltage	218.4 VDC ±1%	273 VDC ±1%	218.4 VDC ±1%	273 VDC ±1%	218.4 VDC±1%	273 VDC±1%	— —	
Battery External (Long Back up Unit)	Battery Type	Depends on the applicant							
	Quantity	16	20	16	20	16	20	16	
	Charging Current	Preset 4A,1A/2A/4A(Adjustable)						12A	
	Charging Voltage	218.4 VDC±1%	273 VDC ±1%	218.4 VDC ±1%	273 VDC ±1%	218.4 VDC±1%	273 VDC±1%	218.4 VDC±1%	
Efficiency									
City Electricity Mode		91%				93%		91%	
Battery Mode		91%				87%		88%	
Display Interface									
LCD		System status,Load level,Battery level,AC mode,Battery mode,Bypass mode, input/output voltage,and Fault indication							
Alarm									
Battery Mode		Sounding every 4 seconds							
Low Battery		Sounding every second							
Overload		sound every 0.5 second							
Fault		Continuously sounding							
Control Management									
Smart RS-232/USB		Supports Windows®2000/2003/XP/Vista/2008,Windows7/8/10,Linux and MAC							
Optional SNMP		Power management from SNMP manager and web browser							
Environment									
Relative Humidity		0-95%RH @0-40℃(Non-condensing)							
Noise Level		<60dB @1M							
Physical									
Standard Unit	Dimension:W*D*H(mm)	190*442*688				190*575*688		— —	
	Net Weight(kg)	66	76	67	78	74	85		
Long Backup	Dimension:W*D*H(mm)	190*442*318				190*575*318		250*815*826	
	Net Weight (kg)	15		16		22		64	

Power Guard

PGH Series High Frequency online Tower UPS
Three Phase In Three Phase Out
10~20KVA

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;

Grid friendly

Energy saving green power with high input power factor and low THDI.

Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.

Main Feature

- True double conversion
 - DSP technology for high performance
 - Provides maintenance bypass
 - Supports shared battery packs
 - Output power factor 1.0
 - Power step function
 - Power factor correction available
 - Optional parallel operation
 - 50Hz/60Hz inverter mode
- ECO mode efficiency
 - EPO Emergency Shutdown Button
 - Generator compatible
 - Optional isolation transformer
 - SNMP/USB/RS-232 communications
 - Threestage charging design
 - Optimised battery performance
 - Adjustable battery quantity
 - Suitable for long time operation

USB card

Inbuilt SNMP card

Parallel card

Isolation Transformer

Model PGH		3310TT(L)	3315TT(L)	3320TT(L)
Phase		Three-phase four-wire input/Three-phase four-wire output		
Capacity		10KVA/10KW	15KVA/15KW	20KVA/20KW
Paralleling Capability		4		
Input				
Rate Voltage		3x380VAC(3ph+N+PE)		
Voltage Range		110-300 VAC@50%load;176-276 VAC@Load		
Frequency Range		40-70Hz		
Power Factor		>0.99@100%load		
Harmonic Distortion(THDi)		Linearload<3%		
Output				
Rated voltage		3x360*/380/400/415 VAC(3PH+N)		
Voltage range(Battery Mode)		±1%		
Frequency	SYN Correction Range	46~54Hz or 56~64Hz		
	Battery Model	50/60Hz±1%		
Current Crest Ratio		3:1(Max)		
Harmonic Distortion(THDv)		≤1%THD (Linear load);≤3%THD(Non-linear load)		
Transfer Time	City Electricity/Battery	Zero		
	Inverter/Bypass	Zero		
Waveform(Batt.Mode)		Pure Sinewave		
Overload capacity		100-110%60 minutes,111-125%10 minutes,126%-150%1 minute;>150%for 400ms		
Battery Type				
Battery Internal (Standard Unit)	Battery Type	12V/9Ah	12V/9Ah	12V/9Ah
	Quantity	(10+10)	(16+16)	(16+16)
	Typical Recharge Time	9 hours recover to 90%capacity		
	Charging Current	1A~12A(Adjustable)		
	Charging Voltage	±136.5 VDC	±218 VDC	
Battery External (Long Back up Unit)	Battery Type	Multiple battery boxes according to actual application		
	Quantity	16~32(optional);32~4(Optional)	20~32(optional);32~40(Optional)	
	Charging Current	1A~12A(Adjustable)		
	Charging Voltage	±13.65V×N(N=16~20)		
Bypass				
Rated Voltage		3×380/400/415 VAC(3PH+N)		
Voltage Range		-30%~+20%(Adjustable)		
Frequency Range(Synchronized Range)		46~54Hz or 56~64Hz		
Overload Capacity		>130%1 minutes (default value),continue to work until the circuit breaker is protected		
Efficiency				
City Electricity Mode		96%		
ECO Mode		99%		
Battery Mode		96%		
Display Interface				
LCD		UPS status,load capacity,battery capacity,input/output voltage, discharge time and fault indication		
Control Management				
Smart RS-232/USB		Supports Windows2000/2003/XP/Vista/2008,Windows7/8/10, Linux and MAC		
Optional SNMP		Power management from SNMP manager and web browser		
Environment				
Temperature and Humidity		0-40°C;0-95%relative humidity(non condensing)		
Altitude**		0~1500m under full load		
Noise Level		<60dB @1m		
Physical				
Standard Unit	Dimension:W*D*H(mm)	250*630*827		
	Net Weight(kg)	93	125	
Long Backup Unit	Dimension:W*D*H(mm)	250*630*827		
	Net Weight(kg)	37	40	

Power Guard

PGH Series High Frequency online Tower UPS
Three Phase In Three Phase Out
30~60KVA

Load power factor of 0.9

Adapts to the characteristics of most currentelectrical equipment and increases the loadcarrying capacity of the machine.

Active Input Power Factor Correction (PFC)

Active power factor correction via digital control achieves ≥0.99 input power factor to prevent grid pollution, save energy and cut system costs.

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

DSP

DSP digital control technology

All power conversion links such as rectification,inverter,charging,and discharge are digitally controlled.



Main Feature

- True doubleconversion
- DSP technology for high performance
- Provides maintenance bypass
- Supports shared battery packs
- Output power factor 1.0
- Power step function
- Power factor correction available
- Optional parallel operation
- 50Hz/60Hzinverter mode
- Energy Conservation Operating Mode(ECO)
- Emergency shutdown function(EPO)
- Generator support
- Optional isolation transformer(10K-80K)
- SNMP+USB+RS-232 multiple communication
- Threes-tage charging design
- Optimisedbattery performance
- Adjustable battery quantity
- Suitable for long time operation

Applications

Government,Finance,IT,Education,Transportation,Broadcasting,Medical,Energy,etc.

Model PGH		3330TT(L)	3340TT(L)	3360TT(L)
Phase		Three in and three out		
Capacity		30KVA/30KW	40KVA/40KW	60KVA/60KW
Paralleling Capability		4		
Input				
Rate Voltage		3x380/400/415 VAC(3PH+N)		
Voltage Range		110-300 VAC@50%load;176-276 VAC@Load		
Frequency Range		40-70Hz		
Power Factor		>0.99@100%load		
Harmonic Distortion(THDi)		Linear load<4%		
Output				
Rated voltage		3x360*/380/400/415 VAC(3PH+N)		
Voltage range(Battery Mode)		±1%		
Frequency	SYN Correction Range	46~54Hz or 56~64Hz		
	Battery Model	50/60Hz±1%		
Current Crest Ratio		3:1(Max)		
Harmonic Distortion(THDv)		≤2%THD(linear load);≤5%THD(Non-linear load)		
TransferTime	City Electricity/Battery	Zero		
	Inverter/Bypass	Zero		
Waveform(Batt.Mode)		Pure Sinewave		
Overload capacity		100-110%60 minutes,111-125%10 minutes,126%-150%1minute;>150%for 400ms		
Battery Type				
Battery Internal (Standard Unit)	Battery Type	12V/7Ah	12V/9Ah	—
	Quantity	(16+16)*2	(16+16)*2	
	Charging Current	2A		
	Charging Voltage	+/-13.65 VDC*N±1%(N=16~20)		
Battery External (Long Back up Unit)	Battery Type	Multiple battery boxes according to actual application		
	Quantity	30~40(Optional)		
	Charging Current	1A~12A(Adjustable)		1A~20A(Adjustable)
	Charging Voltage	±13.65V×N(N=16~20)		
Bypass				
Rated Voltage		3x380/400/415 VAC(3PH+N)		
Voltage Range		305VAC~457VAC		
Frequency Range(Synchronized Range)		46~54Hz or 56~64Hz		
Overload Capacity		>130%1minutes (default value),continue to work until the circuit breaker is protected (optional)		
Efficiency				
City Electricity Mode		95.5%		
ECO Mode		98.5%		
Battery Mode		94.5%		
Display Interface				
LCD		UPS status,load capacity,battery capacity,input/output voltage, discharge time and fault indication		
Control Management				
Smart RS-232/USB		Supports Windows2000/2003/XP/Vista/2008,Windows7/8/10,Linux and MAC		
Optional SNMP		Power management from SNMP manager and web browser		
Environment				
Temperature and Humidity		0-40°C;0-95%relative humidity(Non condensing)		
Altitude**		0~1000m under full load		
Noise Level		<65dB@1m	<70dB @1m	<70dB@1m
Physical				
Standard Unit	Dimension:W*D*H(mm)	300*815*1000	300*815*1000	—
	Net Weight(kg)	207	233	
Long Backup Unit	Dimension:W*D*H(mm)	300*815*1000	300*815*1000	300*815*1000
	Net Weight(kg)	55	56	74

Power Guard

PGH Series High Frequency online Tower UPS
Three Phase In Three Phase Out
80~200KVA

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

Frequency Adaptive Systems


To meet the requirements of different teletrical systems,it can be set Fixed or automatic recognition to suit 50Hz/60Hz.

Grid friendly

Energy saving green power with high input power factor and low THDi.

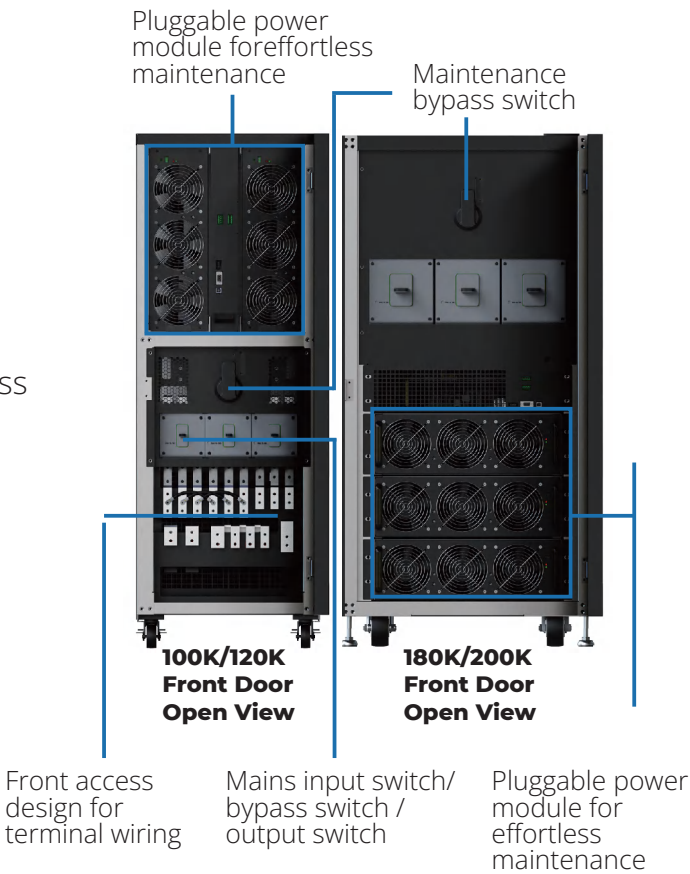
Can be used with agenerator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure,stable power supply to the load.



Main Feature

- Pluggable power module design with front accessto decrease MTTR,parallel redundancy capability for power guarantee
- Parallel operation with common battery
- Power walk-in function
- Dual-mains inputs
- Built-in 4 switches including Mains input,by pass input,output and maintenance by pass switch
- Flexible battery configuration and adjustable charging current
- Output power factor 1
- Active power factor correction in all
- Phases Built-in 7"touch LCD screen for comprehensive information
- Emergency power off function(EPO)
- Generator compatible
- 50Hz/60Hz frequency converter mode



Model PGH	3380TT(L)	33100TT(L)	33120TT(L)	33180TT(L)	33200TT(L)
Phase	3-phase in/3-phase out				
Capacity	80KVA/80KW	100KVA/100KW	120KVA/120KW	180KVA/180KW	200KVA/200KW
Battery Type	External Battery				
Paralleling Capability	4				
Input					
Rate Voltage	3x380/400/415 VAC(3PH+N)				
Voltage Range	110-300 VAC@50%load;176-276 VAC@Load				
NominalFrequency	50/60Hz(Auto sensing)				
Frequency Range	40-70Hz				
Power Factor	>0.99@100%load				
Harmonic Distortion (THDi)	100%load<4%				
Output					
Rated voltage	3×380/400/415 VAC(3PH+N)				
Voltage Regulation(Steady state)	≤±1%Typical(Balanced load) ≤±2%Typical(Unbalanced load)				
Nominal Frequency	50/60Hz				
Frequency Range(Synchronized range)	46Hz~54Hz or56Hz~64Hz				
Overload Capability	≤110%for1 hour,111%~125%for10 mins,126%~150%for1min and>150%for 200ms				
Harmonic Distortion	≤2%THD(Linear Load),4%THD(Non-linear Load)				
Battery/Charger					
Rate Voltage	+/-192V~+/-240V(Optional)				
Maximum Voltage	+/-240V(12V×40 Pcs)				
Minimum Voltage	+/-192V(12V×32Pcs)				
Floating Charge Voltage	2.28V/Cell (2.25~2.33Optional)				
Boost Charging Voltage	2.35V/Cell				
Temperature Compensation	Support				
Maximum Charging Current (Per Power Module)	24A(Adjustable)	36A(Adjustable)	54A(Adjustable)	54A(Adjustable)	
Bypass					
Rated Voltage	3×380/400/415 VAC(3Ph+N)				
Voltage Range	-30%~+20%				
Frequency Range(Synchronized range)	46Hz~54Hz or56Hz~64Hz				
Overload Capability	≤110%for 1 hour,111%~125%for 10 mins,126%~150%for1 min and>150%for 200ms				
Efficiency					
City Electricity Mode	95.5%				
ECO Mode	98.5%				
Battery Mode	94.5%				
Control Management					
Smart RS-232/USB	Supports Windows2000/2003/XP/Vista/2008,Windows7/8/10,Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				
Environment					
Operating Temperature	0-40℃				
Operating Humidity	<95%(Non condensing)				
Altitude**	<1000m for Nominal power				
Standard					
Safety	IEC/EN 62040-1				
EMC	IEC/EN62040-2 Category C3				
Physical					
IP Class	IP20				
Dimension:W*D*H(mm)	430*1000*1200	430*1000*120	430*1000*1200	600*1000*1200	600*1000*1200
Net Weight(kg)	200	200	200	265	265

Power Guard

PGH Series High Frequency online Tower UPS
Three Phase In Three Phase Out
300~600KVA

Extremely wide input voltage and frequency range

The UPS will switch to battery mode when the mains power is normal. Zero time, which can effectively ensure the safety and reliability of the instrument.

Wide range of options

Dust-proof grid, SNMP network communication card, lightning protection module, battery temperature compensator, cell phone SMS alarm.

Intelligent system self-diagnosis

Extensive fault logging, large history storage space, suit 50Hz/60Hz.

DSP

DSP digital control technology

All power conversion links such as rectification, inverter, charging, and discharge are digitally controlled.



Main Feature

- Support 380/400/415V, 50/60Hz power grid system, to provide the ideal power supply quality and load protection
- High performance and efficiency, input PF>0.99, THDi<3%, efficiency>96%
- Full DSP control, flexible and robust digital control for rectifier, inverter and battery management.
- Wide range of voltage and frequency, adapt to different grid and generator input.
- Friendly human-machine interface, equipped with a large LCD touch screen and control keyboard, rich in information.
- All fans in the system are designed with a few spare parts, which greatly improves the reliability of the system.
- Intelligent battery management programme, support for the configuration of large-capacity charging module;
- Top/bottom cable entry, flexible for different field installation.



Model PGH	33300TTL	33400LTTL	33500TTL	33600TTL
Rate Power	300KVA	400KVA	500KVA	600KVA
Main input				
Input	3P5W(3P+N+PE)			
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)			
Rate Freq.	50/60Hz			
Input PF	>0.99			
Current Distortion	THDi<3%(100%Linear load)			
Voltage Range	304~478VAC(L-L)full load; 304~228VAC(L-L)power derate from 100%to 75%			
Freq.Range	40-70Hz			
Battery				
Rate voltage	±240VDC			
Charging Capacity	20%*Pout			
Charging Accuracy	±1%			
Bypass				
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)			
Voltage Range	50/60Hz			
Overload	110%,long time operation;110%<load<125%,5mins 125%<load<150%,1min;>150%,1 second			
Inverter				
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)			
Rate Freq.	50/60Hz			
Output PF	1			
Voltage Accuracy	±1.0%			
Load Response	<5%(20%-80%-20%step load)			
Recovery Time	<20ms(0%-100%-0%step load)			
Output THDu	<1%(linear load),<5%(non-linear load according to IEC62040-3)			
Overload	110%,1hour;125%,10 mins;150%,1 min;>150%,200ms			
Frequency Accuracy	0.1%			
Synchronize Window	Settable,±0.5Hz~±5Hz,default±3Hz			
Slew Rate	Settable,0.5Hz/S-3Hz/S,default 0.5Hz/S			
Crest Factor	3:1			
Phase Accuracy	120°±0.5°			
System				
Efficiency	Normal Mode≥96%;Battery Mode≥96%			
Display	LED+10inch touch LCD			
Certification-Safety	IEC62040-1,IEC60950-1			
Certification-EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS); IEC61000-4-4(EFT);IEC61000-4-5(Surge)			
IP Degree	IP20			
Configuration	USB,RS232,RS485,Dry contact,Cold start,Air filter			
Option	SNMP card,AS400 card,Parallel kit,SPD,LBS			
Environment	0-40℃(operation);-25℃~70℃(storage);0-95%(Humidity,non-condensing)			
Noise(dB)(1meter)	72dB @100%load,69dB@45%load			
Dimention				
W*D*H(mm)	600*1000*2000			1200*1100*2000

Power Guard

PGH Series High Frequency online Tower UPS
Three Phase In Three Phase Out
1000~2000KVA

Modular design

When the power unit fails,the unit can be removed and used again at a reduced rate.

User-friendly design

LCD liquid crystal display,which can display theworking status and parameter information of UPS inreal time,facilitating user management of UPS;

Inward power factor up to 0.99

The incoming harmonic current is less than 3%and the efficiency of the machine is 95%,making it environmen- tally friendly and energy ye efficient.

3P/3POnline double conversion

Supports 380/400/415V,50/60Hz grid system,providing ideal power quality and load protection.



Main Feature

- Full DSP control,flexible and robust digital control for rectifier,- inverter and battery management.
- System level+veneer level+device level comprehensive protection, extreme reliability,stronger environmental adaptability
- Extra-large 10-inch LCD touch screen,colourful graphic display,easy to operate,friendly man-machine interface
- Intelligent system self-diagnostic programme,rich fault records,large-capacity historical records storage space
- Maximum capacity of 2MW,the best choice for uninterruptible power supply in ultra-large data centres.



Applications

Government,Finance,IT,Education,Transportation,Broadcasting,Medical,Energy,etc.

Model PGH	331000TTL	331500TTL	332000TTL
Rate Power	1000KVA/1000kW	1500KVA/1500kW	2000KVA/2000kW
Main input			
Input	3P+N+PE		
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
Rate Freq.	50/60Hz		
Input PF	>0.99		
Current Distortion	THDi<3%(100%Linear load)		
Voltage Range	304~478VAC(L-L)full load;304~228VAC(L-L)power derate from 100%to 75%		
Freq.Range	40-70Hz		
Battery			
Rate voltage	±240VDC(32-44 sections settable)		
Charging Capacity	20%*Pout		
Charging Accuracy	±1%		
Bypass			
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
Voltage Range	Adjustable voltage,default-20%~+15%;upper limit:+10%,+15%,+20%,+25%; lower limit-10%,—15%,-20%,-30%,-40%		
Overload	110%,long time operation;101%<load<125%,5 mins 125%<load<150%,1min;>150%,1 second		
Inverter			
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
Rate Freq.	50/60Hz		
Output PF	1		
Voltage Accuracy	±1.0%		
Load Response	<5%(20%-80%-20%step load)		
Recovery Time	<20ms(0%-100%-0%step load)		
Output THDu	<1%(Linearload),<5%(Non-linear load)		
Overload	110%,1hour;125%,10 mins;150%,1 min;>150%,200ms		
Frequency Accuracy	0.1%		
Synchronize Window	Settable,±0.5Hz±5Hz,default±3Hz		
Slew Rate	Settable,0.5Hz/S-3Hz/S,default 0.5Hz/S		
Crest Factor	3:1		
Phase Accuracy	120°±0.5°		
System			
Efficiency	Normal Mode≥97%;Battery Mode≥97%		
Display	LED+10inch touch LCD		
Certification-Safety	IEC62040-1,IEC60950-1		
Certification-EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS); IEC61000-4-4(EFT);IEC61000-4-5(Surge)		
IP Degree	IP20		
Configuration	USB,RS232,RS485,Dry contact,Cold start,Air filter		
Option	SNMP card,AS400 card,Parallel kit,SPD,LBS		
Environment	0-40℃(operation);-25℃~70℃(storage);0-95%(Humidity,non-condensing)		
Noise(dB)(1meter)	72dB@100%load,69dB @45%load		
Dimention			
W*D*H(mm)	2000*1100*2000	2800*1100*2000	3400*1100*2000

Power Guard

PGH Series High Frequency online Rack UPS
Single Phase In Single Phase Out
1~10KVA

Double conversion pureonline type

Intelligent slots support expandable functions via IS-B, AS400, c-monitoring, SNMP, RS485 and EI environmental monitoring cards.

Real time monitoring and alarm

Detect important parameters in real time, and immediately give an alarm if any abnormality is found.

Energy saving

Under normal use, the product will not cause harm to people and the environment.

Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.



Product Description

Coolnet PGH series rack type UPS is the double transformation on-line technology, support more than 3 sets parallel work, and support the function of sharing battery pack when in parallel mode; online UPS can provide the optimal power environment for the load. Regardless of voltage accuracy, input noise filtering, zero switching time and compatible with the standard terms of service cabinet, Rack UPS is the best choice

Main Feature

- True double-conversion
- Microprocessor control optimizes reliability
- Output power factor correction
- Wide input voltage range(110-300VAC)
- Converter mode available
- ECO mode for energy saving only available for 1-3KVA models
- Generator compatible
- Adjustable charging current via LCD or software(1A-6A)
- Emergency power off function(EPO) only available for 6K/10K models
- Comprehensive display allows easy monitoring access of UPS status



Model PGH		1101RT(L)	1102RT(L)	1103RT(L)	1106RT(L)	1110RT(L)
Capacity		1kVA/0.8kW	2kVA/1.6kW	3kVA/2.4kW	6kVA/4.8kW	10kVA/8kW
Input						
Connection Mode		Single Phase +Ground				
Input Voltage		200/208/220/230/240Vac				
Voltage Range		110-300Vac				
Frequency Range		40-70Hz				
Power Factor		0.8				
Output						
Output Voltage		200/208/220/230/240Vac				
Voltage Regulation		±1%				
Frequency	SYN Correction range	46-54Hz/56-64Hz				
	Battery Model	50 Hz±0.1Hz/60Hz±0.1Hz				
Distortion (THDU)		≤3%				
Peak Coefficient		≥3:1				
Overload Capacity		110%,convey to bypass after 1h;125%,convey to bypass after 10 min;150%,convey to bypass				
Transfer Time	City power/Battery	0ms				
	Inverter/Bypass	≤4ms(standard environment)			0ms	
Battery Type						
Battery Internal	Quantity	2	4	6	/	
	Charging Current	1.0A(Max)			/	
	Battery Model	12V 9AH			/	
Battery External	Quantity	3	6	8	16(16-20 optional)	
	Charging Current	1A/2A/4A/6A settable				
	Battery Model	Depends on the applicant				
Efficiency						
City Electricity Mode		≥91%			≥93%	
Battery Mode		≥91%			≥93%	
Display Interface						
LCD/LED		Loading Size,Battery Capacity,City Electricity Mode,Battery Mode,Bypass Mode,Fault Indication				
Control Management						
Smart RS-232/USB		Supports Windows®2000/2003/XP/Vista/2008,Windows 7/8/10,Linux and MAC				
Optional SNMP		Support SNMP Internet Management				
Environment						
Temperature		0-40℃				
Relative Humidity		0-95%(Non Condensing)				
Noise Level		<50dB@1m			<55dB@1m	<58dB@1m
Physical						
Standard Unit	Dimension:	438*310*88	438*410*88	438*630*88	/	/
	Net Weight(kg)	12	18	29	/	/
Long Backup Unit	Dimension:	438*310*88	438*410*88		438*530*88	438*530*133
	Net Weight(kg)	5	7	8	12	16

Power Guard

PGH Series High Frequency online Rack UPS
Single Phase In Single Phase Out
1~10KVA

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;

Load power factor of 0.9

Adapts to the characteristics of most current electrical equipment and increases the load carrying capacity of the machine.

Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.

Main Feature

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage range
- Converter mode available
- ECO mode for energy saving only available for 1-3K models
- Generator compatible
- Adjustable charging current via LCD or software(1A-6A)
- Emergency power off function(EPO) only available for 6K/10K models
- Comprehensive display allows easy monitoring access of UPS status

Applications

Mainly used in large IDC rooms, bank/securities settlement center, communication network management center, semiconductor product lines and large automation production and its control system. According to the special needs of users was improved, and used in large sports venues, conference room, theater and highway and railway tunnels metal halide lamp lighting system.



Model PGH		1101RT(L)		1102RT(L)		1103RT(L)		1106RT(L)		1110RT(L)	
Capacity		1KVA/0.9KW		2KVA/1.8KW		3KVA/2.7KW		6KVA/5.4KW		10KVA/9KW	
Input											
Connection Mode		Single Phase+Ground									
Nominal Voltage		110/115/120/127VAC or 208/220/230/240VAC						208/220/230/240VAC			
Input Voltage		60-145 VAC or 120-300 VAC(Based on load at 50%) 90-145 VACor 180-300 VAC(Based on load at 100%)						110-300 VAC(Based on load at 50%) 176-300 VAC(Based on load at 100%)			
Frequency Range		40 Hz~70 Hz						46~54 Hz or 56~64Hz			
Power Factor		0.9									
Output											
Output Voltage		110/115/120/127VACor 208/220/230/240VAC						208/220/230/240VAC			
Voltage Regulation		±1%									
Frequency	SYN Correction range	47~53 Hz or 57~63 Hz						46Hz~54 Hz or 56Hz~64 Hz			
	Battery Model	50 Hz or 60Hz±0.5%						50 Hz±0.1 Hz or 60 Hz±0.1 Hz			
Current Crest Ratio		3:01									
Harmonic Distortion		3%THD (Linear Load) 6%THD(Non-linear Load)						3%THD(Linear Load) 5%THD(Non-linear Load)			
Transfer Time	City power/Battery	Zero						0ms			
	Inverter/Bypass	4 ms(Typical)						0ms			
Waveform(Batt.Mode)		Pure Sinewave									
Battery Type											
Battery Internal	Battery Type	12V/9 Ah		12V/9 Ah		12V/9Ah		12V/9 Ah			
	Quantity	2	3	4		6		16	20	16	20
	Typical Recharge Time	4 hours recover to 90%capacity						9 hours recover to 90%capacity			
	Charging	1A						1A/2A (Adjustable)			
	Charging Voltage	27.4VDC±1%	41.0VDC±1%	54.7 VDC±1%		82.1VDC±1%		218.4 VDC±1%	273VDC ±1%	218.4 VDC±1%	273VDC ±1%
Battery External	Battery Type	Depending on applications									
	Quantity	3		6		6		16~20(Adjustable)			
	Charging Current(max.)	1.0A/2.0A/4.0A/6.0A						1A/2A/4A/6A(Adjustable,6A is only available for 16 pcs batteries)			
	Charging Voltage	41.0 VDC±1%		82.1VDC±1%		82.1 VDC±1%		218.4 VDC±1%(Based on 16pcs batteries)			
Efficiency											
Depends on the applicant											
City Electricity Mode		88%		89%		90%		92%		90%	
Battery Mode		83%		87%		88%		90%		91%	
Display Interface											
LCD		Loading Size,Battery Capacity,City Electricity Mode,Battery Mode,Bypass Mode,Fault Indication									
Control Management											
Smart RS-232/USB		Supports Windows@2000/2003/XP/Vista/2008,Windows 7/8/10,Linux and MAC									
OptionalSNMP		Support SNMP Internet Management									
Environment											
Relative Humidity		20-90%RH @0-40℃(Non-condensing)						0-95%RH @0-40℃(non-condensing)			
Noise Level		<50dB@1m						<55dB@1m		<58dB@1m	
Physical											
Standard Unit		438*310*88	438*410*88		438*630*88		UPS Unit:438*500*88 [2U] Battery Pack: 438*580*133[3U]	UPS Unit:438*500*88[2U] Battery Pack: 438*580*133[3U]	UPS Unit: 438*580*133[3U] Battery Pack: 438*580*133[3U]		
	Net Weight(kg)	12	14.1	19		29.3		UPS Unit:15 Battery Pack:48	UPS Unit: 15 Battery Pack:61	UPS Unit: 18 Battery Pack:51	UPS Unit: 18 Battery Pack:61
Long Backup Unit	Dimension:W*D*H (mm)	438*310*88		438*410*88		438*460*88		438*500*88[2U]		438*580*133[3U]	
	Net Weight(kg)	9		12		14.2		15		18	

Power Guard

PGH Series High Frequency online Rack UPS
Single Phase In Single Phase Out
1~3KVA

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;

Grid friendly

Energy saving green power with high input power factor and low THDI.

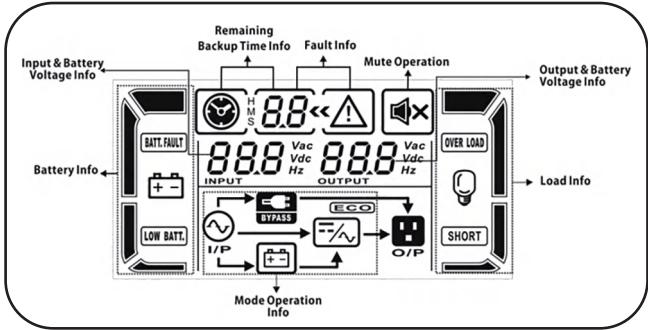
Energy saving

Under normal use, the product will not cause harm to people and the environment.



Main Feature

- True double-conversion
- Output power factor 1
- Output voltage regulation < 1%
- Higher output crest ratio 3:1
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot swappable battery design
- ECO mode energy saving
- Emergency power off (EPO) function
- Provides over voltage Provides over voltage cutt-off protection and surge immunity by MOV for full time equipment protection
- High power factor charger upto 1000W capacity with very low ripple current when charging battery
- Low input THDito reduce power system pollution
- Adjustable charging current via LCD panel



Model PGH		1101RT		1102RT		1103RT	
Capacity		1KVA/1KW		2KVA/2KW		3KVA/3KW	
Phase		Single phase with ground					
Input							
Nominal Voltage		100/110/115/120/127 VAC or 200/208/220/230/240 VAC					
Voltage Range		55-150 VAC±5%or110-300 VAC±5%@50%load;80-150 VAC±5%or160-300 VAC±5%@100%load					
Frequency Range		40~70HZ					
Power Factor		≥0.99 @nominal voltage(100%load)					
Harmonic Distortion(THDi)		≤5%@nominal input voltage					
Output							
Output Voltage		100*/110*/115*/120/127 VAC or 200*/208*/220/230/240 VAC					
Voltage Regulation		±1%					
Frequency	SYN Correction Range	57~63 Hz or 47~53Hz					
	Battery Model	60Hz±0.1Hz or 50 Hz±0.1Hz					
Current Crest Ratio		3:1(max.)					
Harmonic Distortion		≤2%THD(Linear Load);≤4%THD(Non-linear Load)					
Transfer Time	City power/Battery	0ms					
	Inverter/Bypass	4 ms(Typical)					
Waveform(Batt.Mode)		Pure sine wave					
Battery Type							
Battery Type		12V/9Ah	12V/7 Ah	12V/9Ah	12V/7 Ah	12V/9 Ah	
Numbers		2	3	4	6	4	
Typical Recharge Time		3 hours recover to 95%capacity for internal battery@2A charging current					
Charging Current(max.)		100/110/115/120/127 VAC models:default 2A,max.8A adjustable 200/208/220/230/240 VAC models:default 2A,max.12A adjustable					
Charging Voltage		27.4VDC±1%	41.1VDC±1%	54.8VDC±1%	82.1VDC±1%	82.1VDC±1%	
Efficiency							
City Electricity Mode		≥89%@full charged battery		≥91%@full charged battery			
ECO Mode		≥96%@full charged battery					
Battery mode		≥88%		≥90%			
Control Management							
Smart RS-232/USB		Supports Windows®2000/2003/XP/Vista/2008,Windows®7/8/10,Linux and MAC					
Optional SNMP		Power management from SNMPmanager and web browser					
Environment							
Relative Humidity		20-90%RH @0-40℃(non-condensing)					
Noise Level		<50dB@1m					
Altitude		10%de-rating for over 1000m(The altitude should not exceed 3000m)					
Physical							
Dimension:W*D*H(mm)		438*410*88		438*510*88	438*630*88	438*630*88	
Net Weight(kg)	Without Battery	6.6	7.8	9.6	10.6	12.4	
	W/Built-int Battery	11.6	14.1	19.5	23.3	27.5	

Power Guard

PGH Series High Frequency online Rack UPS
Single Phase In Single Phase Out
6~10KVA

Zero Switch

The UPS will switch to battery mode when the mains power is normal Zero time, which can effectively ensure the safety and reliability of the instrument.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;

DSP

DSP digital control technology

All power conversion links such as rectification, inverter, charging, and discharge are digitally controlled.

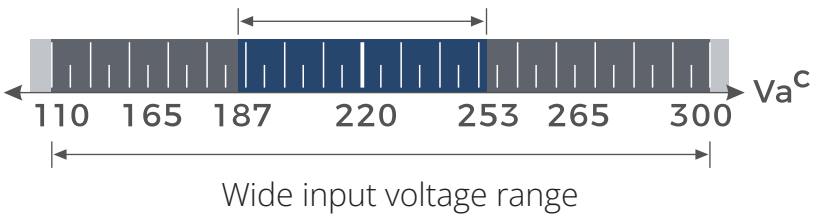
Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.



Main Feature

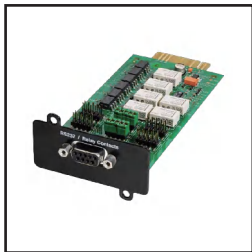
- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- Optional N+X parallel redundancy
- Wide input voltage range (110-300 VAC)
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional N+X parallel redundancy



Accessory



SNMP Card



Relay Card

Model PGH		1106RT(L)		1110RT(L)	
Capacity		6KVA/6KW		10KVA/10KW	
Phase		1 phase in/1phase out			
Input					
Nominal Voltage		208/220/230/240 VAC			
Voltage Range		110~300VAC±3%at 50%load;176~300VAC±3%at 100%load			
Frequency Range		46-54 Hz◎50 Hz/56-64 Hz◎60 Hz			
Power Factor		≥0.99@full load			
THDi		<4%@100%Load,<6%@50%Load			
Output					
Output Voltage		208*/220/230/240 VAC			
Voltage Regulation		±1%			
Frequency	SYN Correction range	46-54 Hz◎50 Hz/56-64 Hz◎60 Hz			
	Battery Model	50Hz±0.1Hz or 60Hz±0.1Hz			
Current Crest Ratio		3:1(max.)			
Harmonic Distortion		≤1%THD (Linear Load),≤4%THD(Non-linear Load)			
Transferr Time	City power/Battery	0ms			
	Inverter/Bypass	0ms			
Waveform(Batt.Mode)		Pure Sinewave			
Overload	City power Mode	100%~110%:10min,110%~130%:1min,>130%:1sec			
	Battery Mode	100%~110%:30sec,110%~130%:10sec,>130%:1sec			
Battery Type					
Standard Model	Battery Type	12V/9Ah		12V/9Ah	
	Quantity	16	20	16	20
	Typical Recharge Time	9 hours recover to 90%capacity			
	Charging Current(max.)	1A			
	Charging Voltage	218.4 VDC±1%	273 VDC±1%	218.4 VDC±1%	273 VDC±1%
Long-run Model	Battery Type	Depending on applications			
	Quantity	16-20**			
	Charging Current (max.)	4.0A			
	Charging Voltage	(13.65VDCx battery number)±1%			
Efficiency					
City power Mode		94%		94%	
ECO Mode		98.5%		98.5%	
Battery Mode		92%		92%	
Display Interface					
LCD		UPS status,Load level,Battery level,Input/Output voltage,Discharge timer,and Fault conditions			
Control Management					
Smart RS-232/USB		Supports Windows2000/2003/XP/Vista/2008,Windows®7/8/10,Linux and MAC			
Optional SNMP		Support SNMP Internet Management			
Environment					
Relative Humidity		20-90%RH @0-40℃(Non-condensing)			
Noise Level		<55dB@1m		<58dB@1m	
Physical					
Standard Unit	Dimension:W*D*H(mm)	UPS Unit: 438x610x88[2U] BatteryPack: 438x715x88 [2U]	UPS Unit: 438x610x8[2U] Battery Pack: 438x600×133[2U]	UPS Unit: 438x610×88[U] Battery Pack: 438x715x88[2U]	UPS Unit: 438x610x8[2U] Battery Pack: 438x600×133[2U]
	Net Weight(kg)	UPS Unit:17 Battery Pack:48	UPS Unit:17 Battery Pack:57	UPS Unit:20 Battery Pack:53	UPS Unit:20 Battery Pack:63
Long Backup Unit	Dimension:W*D*H(mm)	438*610*88[2U]		438*610*88[2U]	
	Net Weight(kg)	17		20	

Power Guard

PGH Series High Frequency online Rack UPS
Three Phase In Single Phase Out
10~20KVA

Load power factor of 0.8

Adapts to the characteristics of most current electrical equipment and increases the load carrying capacity of the machine.

Real time monitoring and alarm

Detect important parameters in real time, and immediately give an alarm if any abnormality is found.

DSP

DSP digital control technology

All power conversion links such as rectification, inverter, charging, and discharge are digitally controlled.

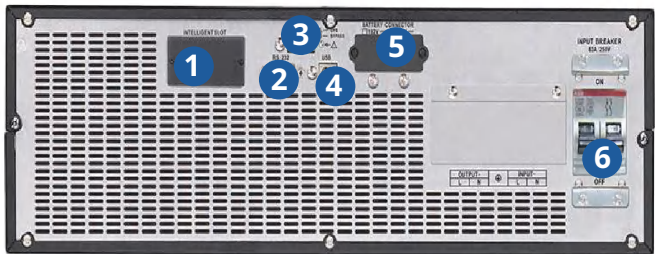
Energy saving

Under normal use, the product will not cause harm to people and the environment.



Main Feature

- True double-conversion
- DSP technology guarantees high performance
- Output power factor correction
- Wide input voltage range(60-150 VAC)
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving(ECO)
- Emergency power off function (EPO)
- Generator compatible
- Charger capacity expansion to 8A for long-run models
- SNMP/USB/RS-232 communications
- 3-stage extendable charging design for optimized battery performance
- Maintenance bypass available
- Adjustable battery numbers



- 10KVA Back Panel
- 1. INTELLIGENT SLOT
 - 2. RS-232
 - 3. EPO
 - 4. USB
 - 5. BATTERY CONNECTOR
 - 6. INPUT BREAKER ON/OFF

Model PGH		3110RT(L)	3115RT(L)	3120RT(L)
Capacity		10KVA/10KW	15KVA/15KW	20KVA/20KW
Input				
Connection Mode		Single Phase +Ground		
Input Voltage		380/400/415VAC		
Voltage Range		285~520VAC@100%Load176~520VAC@50%Load		
Frequency Range		40~70HZ		
Power Factor		≥0.99		
Output				
Output Voltage		200/208/220/230/240Vac		
Voltage Regulation		±1%		
Frequency	SYN Correction Range	46~54Hz/56~64Hz		
	Battery Model	50Hz±0.1Hz/60Hz±0.1Hz		
Distortion(THDU)		≤2%(Linear load)≤3%(Non-liner load)		
Peak Coefficient		≥3:1		
Overload Capacity		110%,convey to bypass after 1h;125%,convey to bypass after 10min;150%,convey to bypass after 1min.		
Transfer Time	City power/Battery	0ms		
	Inverter/Bypass	0ms		
Battery Type				
Quantity		20	32-40 optional	
Charging Current		1A/2A/4A/6A/12A settable		
Battery Mode		Depends on the applicant		
Efficiency				
City Electricity Mode		96		
Display Interface				
LCD/LED		Loading Size,Battery Capacity,City Electricity Mode,Battery Mode, Bypass Mode,Fault Indication		
Control Management				
Smart RS-232/USB		Supports Windows®2000/2003/XP/Vista/2008, Windows®7/8/10, Linux and MAC		
Optional SNMP		Support SNMP Internet Management		
Environment				
Temperature		0-40℃		
Relative Humidity		0-95%(Non Condensing)		
Noise Level		<62dB@1m	<65dB@1m	
Physical				
Dimension:W*D*H(mm)		438*680*133		438*680*266
Net Weight(kg)		29		30

Power Guard

PGH Series High Frequency online Rack UPS
Three Phase In Three Phase Out
10~60KVA

Zero Switch
The UPS will switch to battery mode when the mainspower is normal Zero time,which can effectivelyensure the safety and reliability of the instrument.

Load power factor of
Adapts to the characteristics of most current carrying capacity of the machine.

Active Input Power Factor Correction (PFC)
Active power factor correction via digital control achieves ≥0.99 input power factor to prevent grid pollution, save energy and cut system costs.

Can be used with a generator
The wide range of input voltages and frequenciesisolates the bad power generated by the generator toprovide a pure,stable power supply to the load.

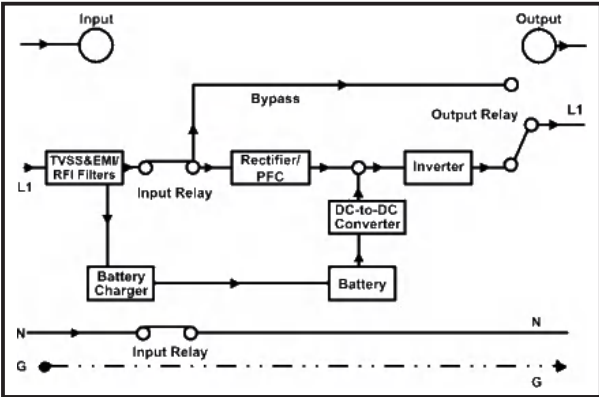


Main Feature

- True double-conversion
- LCD screen auto-rotates(only available for 10K-30Kmodels)
- DSP technology guarantees high performance
- Output power factor 1.0
- With Power Factor Correction
- 50Hz/60Hz frequency converter mode
- ECO mode efficiency(ECO)
- Emergency power off function(EPO)
- Support generator
- Support for two inputs
- Three stage charging design to optimiz battery performance
- Adjustable number of batteries for extendedo peration
- Support for shared battery packs
- Optional isolation transformer
- Optional parallel operation
- NMP+USB+RS-232 multiple communications
- Power walk-in function

Operating Principle

The Operating Principle of the UPS isShown as below



Model PGH		3310RT(L)	3315RT(L)	3320RT(L)	3330RT(L)	3340RT(L)	3360RT(L)
Capacity		10kVA/10W	15kVA/15kW	20kVA/20kW	30kVA/30kW	40kVA/40kW	60kVA/60kW
Parallel capacity		4 max					
Input							
Connection Mode		Three in,three out					
Rated Voltage		3×380 VAC(3PH+N)					
Voltage Range		190-520 VAC(three phase)@50%load. -305-478 VAC(3 phase)@100%load					
Frequency Range		46~54Hz/56~64Hz					
Power Factor		≥0.99100%load					
Output							
Rated voltage		3x360*/380/400/415 VAC(3PH+N)					
Output Accuracy (Batt.Mode)		±1%					
Frequency	SYN Correction range	46~54Hz/56~64Hz					
	Battery Model	50 Hz±0.1Hz/60 Hz±0.1Hz					
Current Crest Ratio		3:1(max.)					
Harmonic Distortion		≤1%THD (Linear Load)≤3%THD(Non -linear Load)					
Transfer Time	City power/Battery	0 ms					
	Inverter/Bypass	0ms					
Waveform(Batt.Mode)		Pure sine wave					
Overload	City Electricity Mode	100-110%60 minutes,110 -125%10 minutes,125% -150%1 minute;>150%Immediate protection					
	Battery Mode	100-110%60 min,110 -125%10 min,125% -150%1 min;>150%Immediate protection					
Battery Type							
Battery Type		Multiple battery boxes to suit the application					
Quantity		20	32~40(Adjustable)				
Maximum Charging Current		1A~12A(Adjustable)				1A~16A (Adjustable)	1A~18A (Adjustable)
Charging Voltage		±13.65 VDC xN(N=10)	±13.65V×N(N=16~20)				
Efficiency							
City Electricity Mode		≥95.50%					
ECO Mode		≥98.50%					
Battery Mode		≥94.50%					
Control Management							
Smart RS-232/USB		Support for Windows @Series,Linux and MAC					
Optional SNMP		Power management support for SNMP management and network management					
Environment							
Relative Humidity		0-95%relative humidity(non condensing)and temperature 0-40℃					
Noise Level		<62dB@1m	<65dB@1m			<70dB@1m	
Physical							
Dimension:W*D*H(mm)		680*438*133[3U]				797*438*176[4U]	
Net Weight(kg)		27	30		32	40	45

Power Guard

PGI Series Industrial UPS
Three Phase In Three Phase Out
10~200KVA

Zero Switch

The UPS will switch to battery mode when the mainspower is normal Zero time,which can effectively ensure the safety and reliability of the instrument.

User-friendly design

LCD liquid crystal display,which can display theworking status and parameter information of UPS inreal time,facilitating user management of UPS;

DSP

DSP digital control technology

All power conversion links such as rectification,inverter,charging,and discharge are digitally controlled.

Can be used with a generator

The wide range of input voltages andfrequencies isolates the bad power generatedby the generator to provide a pure,stablepower supply to the load.



Product Description

PGI Series is a full digitized DSP controlled online double conversion 3 Phase Industrial UPS.LF transformerisolated all interferences such as Mains Input Surge or Load impact from the UPS,which also greatly reduce therisk of the UPS and load.FC Series has power parallel redundancy feature with real 0.9 output PF.It also containsfriendly and intuitive user Interface.It provides reliable,stable,and constant AC power for IT equipment, telecommunication critical devices.

Main Feature

- Advanced silicon controlled rectifier intelligent control technology
- Adopt the fifth generation IGBT inverter control technology,output power factor PF=0.9
- Strong adaptability of power grid
- Adaptable to a wide range of generator equipment
- Overall Efficiency up to 90%.Can reach to 98%on ECO Mode
- Superload adaptability and output overload and short circuit capability
- Intelligent battery management system design
- Intelligent fault diagnosis,rich fault records,large capacity fault storage space
- Friendly and Intuitive User Interface.Large Color Touch LCD Screen with multi-functional buttons
- Flexible Single or Dual Utility Power Input to comprehensively protect load devices

Model PGI	3310L	3315L	3320L	3330L	3340L	3360L	3380L	33100L	33120L	33160L	33200L
Capacity	10KVA /9KW	15KVA /13.5KW	20KVA /18KW	30KVA /27KW	40KVA /36KW	60KVA /54KW	80KVA /72KW	100KVA /90KW	120KVA /108KW	160KVA /144KW	200KVA /180KW
Host Machine Specification											
UPS Structure	Online Double Conversion										
Appearance	Low Frequency with Output Isolated Transformer										
Overall ficiency(AC-AC)	90%										
Noise (In 2 Meters)	<50-60dB										
Working Temp.	-10-40℃										
Storage Temp.	-25～60℃(Without Batteries)										
Humidity	<95%,Non-Condensing										
National Standard	EN50091-1/IEC950										
International Standard	EN 50091-1/2;EN62040-1;EN62040-2										
Parallel Redundancy	Available up to 8units										
Protection	Overload,Short-Circuit,Over Temp.,Utility Power Voltage High/low,BAT Voltage High/low										
ECO	Available										
EPO Function	Available										
DC Start	Available(Not Recommended)										
Generator Compatibility	Available										
Display	5-7 inch LCD colortouch screen+LED working indicators including Input/Output Voltage,Frequency,Current,Power,Load										
Mute	Auto										
Cabinet Standard	IP20										
Cooling System	Intelligent Speed Control Cooling Fan										
Elevation	<1500M,Without Derated										
Rectifier Specification											
Input Voltage	380Vac+N+W(3phase+PE)										
Input Voltage Range	285-475Vac										
Input Frequency Range	45-65Hz										
Input PF	0.95(with input filter)										
THDI	<5%(with optional accessories)										
DualInput Availability	Available(Optional accessories)										
Input Mis Phase Protection	Misphase Alarm,UPS will not be started										
Input Phase lost Protection	Phase Lost Alarm,UPS work on Bypass mode										
Soft-Start	>20 Seconds										
Input Current	23A	31A	39A	54A	70A	100A	125A	160A	192A	256A	320A
Output Specification											
Output Voltage	Line Voltage:380×(1±1%)ACor Phase Voltage:220×(1±1%)AC										
Output PF	0.8/0.9(No lag)										
Output Voltage Regulation	380Vac±1%(Static Load);380Vac±2%(50-0%Sudden Change);380Vac±3%(100-0%Sudden Change)										
Output Freq	±8%at 50Hz:Online Mode tracking input and bypassfreq.;±0.1%:when input or bypassfrequency is more than±8%or under BAT Mode										
THD	<1%(Linear Full Load)<3%(Non-Linear FullLoad)										
3 Phase Unbalanced	Allow 3 Phase 100%Unbalanced										
Output Volt.Unbalanced	≤1%(Balanced Load);≤2%(50%Balanced Load)										
Input/Output Phase Swift	≤1°(Balanced Load);≤2°(50%Balanced Load)										
Frequency Tracking Range	45-65Hz										
Output Waveform	Pure Sine Wave										
Overload	>125%:More than 10 mins;>150%:More than 60s transfer to bypass										
Crest Ratio	3:1										
ShortCircuit	Circuit Auto-Protection,Bypass Switch Tripping										
Output Abnormal	INV.Output AutoLocked Protection										
Bypass Specification											
Static Bypass Transfer Time	0ms										
Static Bypass Input Range	380Vac(-15～+15%)										
Frequency Range	50/60Hz±1Hz,±2Hz,±3Hz Adjustable										
Bypass->INV Transfer Time	2ms										
Frequency Tracking Speed	0.5-2hz/s										
Manual Maintenance Bypass	Available										
Battery Specification											
Charging Methods	DSP Controlled Charger:Equalized/Pulse Charge,Float Charge,Intelligent Battery Management										
Type	Sealed Lead Acid Maintenance Free										
Rated Volts/Units	12V/384Vdc,Std.for 32 Units,adjustable from 28-32units										
Float Charge Voltage	438Vdc										
Charging Current	Can be set from the front Screen										
Abnormal Protections	BAT over-charged,Emergency charger shutdown protection orUPS shutdown protection										
Communication Specification											
Communication Port	RS232/SNMP/485/Dry Contact(OptionalAccessory)										
Remote Software	Multi-functional Monitoring System,Online and BAT Mode Status,BATFault,Remote Control										
Physical Parameters											
Size(W*H*D)mm	475*990*700			500*1100*800		605*1350*800		800*1600*800		1100*1850*850	
Net Weight Kg	210	223	230	280	330	450	550	630	750	810	855

Power Guard

PGI Series Industrial UPS
Three Phase In Three Phase Out
160~600KVA

Zero Switch

The UPS will switch to battery mode when the mainspower is normal Zero time,which can effectively ensure the safety and reliability of the instrument.

Active Input Power Factor Correction (PFC)

Active power factor correction via digital control achieves ≥0.99 input power factor to prevent grid pollution, save energy and cut system costs.

Real time monitoring and alarm

Detect important parameters in real time,andimmediately give an alarm if any abnormality is found.

Can be used with agenerator

The wide range of input voltages andfrequencies isolates the bad power generatedby the generator to provide a pure,stablepower supply to the load.



Product Description

PGI Series is a high end 3 Phase Input/Output transformer based UPS system.It adapts the innovative designing concept of integration.It also has significantly improved the efficiency and reliability.Product Performance Index has reached international level.With Multiple Digital Control Modules,such as DSP,MCU,and CPLD,CNP-N can be non-prioritized paralleled up to 8 units to lower operating costs without compromising reliability, performance,and availability.

Main Feature

- Multiple DSP,CPLD,MCU full digital control,higher system consistency and stability
- Wide Input Voltage Range.High adaptive capacity and Generator Capability
- Input Power Factor can be up to>0.99 and THDI<4.5%with optional filters
- Output Power Factor0.9 without lagging
- Cooling Fans internal Parallel Redundancy Design
- Output Isolated Transformer Built-in.It can reduce impacts and interferences from Load Harmonic Wave Current and N-Wire Voltage
- Multiple communication interfaces integrated(RS232,RS485,Dry Contact,EPO,etc.)
- Front Maintenance.Available for top connections with protection devices
- Intuitive User Interface with large Dot-matrix LCD Screen and multi-functional keyboard

Model	PGI	33160L	33200L	33250L	33300L	33400L	33500L	33600L
Capacity		160KVA /144KW	200KVA /180KW	250KVA /225KW	300KVA /270KW	400KVA /360KW	500KVA /450KW	600KVA /540KW
Host Machine Specification								
UPS Structure	Online Double Conversion							
Appearance	Low Frequency with Output Isolated Transformer							
Overall efficiency(AC-AC)	94%(With Optional Accessories)							
ECO	98%							
Noise (In 2 Meters)	67dB							
Working Temp.	0-40℃							
Storage Temp.	-15~50℃(Without Batteries)							
Humidity	<95%,Non-Condensing							
National Standard	IEC60950-1,IEC62040-1-1							
International Standard	IEC62040-2,IEC62040-3							
ParallelRedundancy	Parallel Redundancy Up to 8 Units							
Protection	Overload,Short-Circuit,Over Temp.,Utility Power Voltage High/low,BAT Voltage High/low							
DC Start	Available							
Generator Compatibility	Available							
Display	LCD Display(Multi-Language with all kinds of messages)+LED							
Mute	Auto							
Cabinet Standard	IP20							
Cooling System	Intelligent Speed Control Cooling Fan							
Elevation	<1500M,Without Derated							
Rectifier Specification								
Input Voltage	380/400/415Vac+N+W(3phase+PE)							
Input Voltage Range	298-498Vac							
Input Frequency Range	50/60Hz±10%							
Soft-Start	5-600 Seconds,Adjustable							
Input PF	0.95(With Optional Input Wave Filter							
THDI	<5%(With Optional Accessories							
Output Specification								
Output Voltage	Line Voltage:380×(1±1%)ACor Phase Voltage:220×(1±1%)AC							
Output PF	0.9							
Output Voltage Regulation	380Vac±1%(Static Load);380Vac±2%(50-0%Sudden Change);380Vac±3%(100-0%Sudden Change)							
Voltage Dynamic Response	±5%,(0~100%Sudden Change)							
Voltage Dynamic Response	<5ms							
Synchronization Range	±5%							
Output Freq	±0.02%(BAT Mode)							
THD	<1%(Linear Full Load),<3%(Non-Linear Full Load)							
3 Phase Unbalanced	Allow 3 Phase 100%Unbalanced							
Output Volt.Unbalanced	≤1%(Balanced Load),≤2%(50%Balanced Load)							
Input/Output Phase Swift	≤1°(Balanced Load),≤2°(50%Balanced Load)							
Frequency Tracking Range	45-65Hz							
Output Waveform	Pure Sine Wave							
Overload	With output PF0.9,105%:Long time Operation,110%:1 Hour,125%:10 Mins,150%:1 Min							
Crest Ratio	3:1							
Short-Circuit	Circuit Auto-Protection,Bypass Switch Tripping							
Output Abnormal	INV.Output AutoLocked Protection							
Bypass Specification								
Static BypassTransfer Time	0ms							
Static Bypass Range	380/400/415Vac(±10%,±15%,±20%Selectable)3 Phase+N(3 Phase+N+PE)							
Frequency Range	50/60Hz±10%							
Bypass->INV Transfer Time	2ms							
Bypass Overload Ability	200%:5 Mins;1000%:10 Seconds							
Manual Maintenance Bypass	Available							
Battery Specification								
Type	Sealed Lead Acid Maintenance Free							
Std.Model Rated Volts/Units	12V,384Vdc/32 Units							
Float Charge Voltage	Equalized Charge,Float Charge,Intelligent Battery Management							
BAT Low	Shutdown Protection							
Communication Specification								
Communication Port	RS232/SNMP/485/Dry Contact(OptionalAccessory)							
Remote Software	Multi-functional Monitoring System,Online and BAT Mode Status,BAT Fault,Remote Control							
Physical Parameters								
Size mm(D)		855		855		855	855	955
Size mm(H)		1900		1900		1900	1900	1900
Size mm(W)6 pulse		1245		1640		2265	--	--
Size mm(W)12 pulse		1770		2265		2265	2615	2865
Net Weight Kg(6pulse)		1075		1580		2105	--	--
Net Weight Kg(12 pulse)		1685		2090		2500	2850	3130