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UNINTERRUPTIBLE POWER SUPPLY

Power Solution Specialist

CATALOG

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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.















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



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







Energy saving green power with





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	040/10RT	L	06	0/10RTL						
Rate Power	20KVA/20KW	40KVA/40K	W	60K	VA/60KW						
Main input											
Input	(3P+N+PE)										
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)										
Rate Freq.		Į.	50/60Hz								
Input PF			>0.99								
Current Distortion		THDi<3%(100%Line	ar load)							
Voltage Range	304-478VAC(L-I	L)full load;304-228	VAC(L-L)p	ower derate from	100%to 75%						
Freq.Range	•		40-70Hz								
Battery											
Rate voltage	0	±240VDC(adjust									
Charging Capacity			0%*Pout								
Bypass											
Rate Voltage		380/400/415VAC(L	-L);220/2	30/240VAC(L-N)							
Voltage Range	default-20%~+15%;uppe	•		` ,	6,-15%,-20%,-30%,-40%						
		%,long time operate									
Overload		125% <load<1509< td=""><td></td><td></td><td></td></load<1509<>									
Inverterr		12370 1000 1307	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3070,1 3000114							
Rate Voltage		380/400/415VAC(L	-L):220/2	30/240VAC(L-N)							
Rate Freq.			50/60Hz								
Output PF			1								
Voltage Accuracy			±1.0%								
Load Response		<5%(20%-8	0%-20%st	ep load)							
Recovery Time		<20ms(0%-1		•							
Output THDu	<1%(linea	ır load),<5%(non-li	near load	according to IEC62	2040-3)						
Overload	110%	,1hour;125%,10 m	nins;150%	,1 min;>150%,200ı	ms						
Frequency Accuracy			0.1%								
Synchronize Window		Settable,±0.5	Hz-±5Hz,d	efault±3Hz							
Slew Rate		Settable,0.5Hz/S		efault 0.5Hz/S							
Phase Accuracy		1	20°±0.5°								
System											
Efficiency		Normal Mode≥96.		,							
Display		LED+7iı	nch touch	LCD							
Certification-Safety		IEC6204	0-1,IEC60	950-1							
Certification-EMS	IEC62040-2;IEC61000-	4-2(ESD);IEC61000	-4-3(RS);IE	C61000-4-4(EFT);I	EC61000-4-5(Surge)						
IP Degree			IP20								
Configuration		USB,RS232,RS48	5,Dry con	tact,Cold start							
Option	SNMP card	d,Extended dry co	ntact,Para	llel kit,APPWiFi/Blu	uetooth						
Environment	0-40℃(opera	ation);-25~70(stora	ige);0-95%	(Humidity,non-co	ndensing)						
Noise(dB)(1meter)		65dB@100%l	oad,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(2	U)							

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

Active Input Power







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												
nput	(3P+N+PE)											
Rate		380/400/415VAC(L-L);220/230/240VAC(L-N)										
Rate Freq.					50/60Hz							
nput PF					>0.99							
Current				THDi<3	%(100%Linea	ar load)						
/oltage		304-4	78VAC(L-L)fu	ll load;304-2	28VAC(L-L)p	ower derate	from 100%t	o 50%				
req.Range					40-70Hz							
Battery												
Rate			±	:240VDC(adjı	ustable for30	0-50 sections	5)					
Charging					20%*Pout							
Bypass												
Rate			380	0/400/415VA	C(L-L);220/23	30/240VAC(L	-N)					
/oltage	defa	ault-20%~+1	5%;upper lin	nit:+10%,+15	%,+20%,+25	%;lower limi	it:-10%,-15%	,-20%,-30%,-	40%			
Overload			110%,lc	ong time ope	ration;110%	<load<125%< th=""><th>,5 mins</th><th></th><th></th></load<125%<>	,5 mins					
nverter												
Rate			380	0/400/415VA	C(L-L);220/23	30/240VAC(L	-N)					
Rate Freq.					50/60Hz							
Output PF					1							
/oltage					±1.0%							
₋oad				<5%(20%	%-80%-20%st	ep load)						
Recovery				<20ms(0	%-100%-0%s	tep load)						
Output		•	<1%(linear lo	ad),<5%(nor	ı-linear load	according to) IEC62040-3	3)				
Overload			110%,1h	our;125%,10) mins;150%	,1min;>150%	6,200ms					
requency					0.1%							
Synchroniz				Settable,+0	.5Hz-±5Hz,d	efault+3Hz						
Slew Rate			S	Settable,0.5H	z/S-3Hz/S,de	efault 0.5Hz/	S					
Crest					3:1							
Phase					120°±0.5°							
System												
Efficiency			No	rmal Mode≥	96.5%;Batter	y Mode≥96.	5%					
Display				LED+	-7inch touch	LCD						
Certificatio				IEC62	.040-1,IEC609	950-1						
Certificatio	I	EC62040-2;II	EC61000-4-2	(ESD);IEC610	00-4-3(RS);IE	C61000-4-4	(EFT);IEC610(00 -4-5(Surge)			
P Degree					IP20							
Configurati			U	SB,RS232,RS	485,Dry cont	tact,Cold sta	rt					
Option		SN	MP card,Exte	ended dry co	ntact,Paralle	l kit,LBS,APF	PWiFi/Blueto	oth				
nvironme		0-4	0℃(operatio	n);-25~70(sto	orage);0-95%	(Humidity,n	on -condensi	ing)				
Noise(dB)(65dB@100	%load,62dB	@45%load						
Dimention												
Cabinet(W	44	2*710*307(7	7U)		442*858*	705(16U)		442*858*	f883(20U)			
Module(W*				40	0*495*86(20	J)						
							-					

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 mainspoweris normal Zero time, which can effectively ensure the safety and reliability of the instrument





Real time monitoring and alarm

Detect important parameters in real ne,andimmediately give an alarm if ar abnormality is found.



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.



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);220/230/240VA	AC(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 der	rate from 100%to 50%							
Freq.Range		40-70Hz								
Battery										
Rate voltage	±2	40VDC(adjustable for30-50 sect	ions)							
Charging Capacity		20%*Pout								
Charging Accuracy		±1%								
Bypass										
Rate Voltage	380/	400/415VAC(L-L);220/230/240VA	AC(L-N)							
Voltage Range	default-20%~+15%;upper limi	t:+10%,+15%,+20%,+25%;lower	limit:-10%,-15%,-20%,-30%,-40%							
Overload	110%,lon	g time operation;110% <load<12< td=""><td>25%,5 mins</td></load<12<>	25%,5 mins							
Inverter										
Rate Voltage	380/	400/415VAC(L-L);220/230/240VA	AC(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%(lin	ear load),<5%(non-linear load a	ccording)							
Overload	110%,1hc	ur;125%,10mins;150%,1 min;>1	50%,200ms							
Frequency Accuracy		0.1%								
Synchronize Window		Settable,+0.5Hz-±5Hz,default+3	Hz							
Slew Rate	Se	ttable,0.5Hz/S-3Hz/S,default 0.5	Hz/S							
Crest Factor		3:1								
Phase Accuracy		120°±0.5°								
System										
Efficiency	Norr	nal 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(E	SD);IEC61000-4-3(RS);IEC61000-	4-4(EFT);IEC61000-4-5(Surge)							
IP Degree		IP20								
Configuration		B,RS232,RS485,Dry contact,Cold								
Option	SNMP card,Exten	ded dry contact,Parallel kit,LBS	,APPWiFi/Bluetooth							
Environment	0-40℃(operation);-25~70(storage);0-95%(Humidi	ty,non-condensing)							
Noise(dB)(1meter)		65dB@100%load,62dB@45%loa	ad							
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)								

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.





dapts to the characteristics of most



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 batiery 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	<u>, </u>			•						
Input		(3P+N+PE)								
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)									
Rate Freq.			50/60Hz							
nput PF			>0.99							
Current Distortion		TH	Di<2%(100%Linear lo	ad)						
/oltage Range	304-	-478VAC(L-L)full load;3	304-228VAC(L-L)powe	r derate from 100%to !	50%					
Freq.Range			40-70Hz							
Battery										
Rate voltage	±240VDC(a	djustable for 30-50 se	ctions) Optional480V	DC(adjustable for 30-5	0 sections)					
Charging Capacity			20%*Pout							
Charging Accuracy			±1%							
Bypass										
Rate Voltage		380/400/4	15VAC(L-L);220/230/2	40VAC(L-N)						
/oltage Range	default-20%~+	15%;upper limit:+10%	%,+15%,+20%,+25%;lo	wer limit:-10%,-15%,-2	0%,-30%,-40%					
Overload	125%,long time	110	%,long time operation	n;110% <load<125%,5 n<="" td=""><td>nins</td></load<125%,5>	nins					
nverter										
Rate Voltage		380/400/4	15VAC(L-L);220/230/2	40VAC(L-N)						
Rate Freq.			50/60Hz							
Output PF			1							
Voltage Accuracy			±1.0%							
oad Response		<5%	(20%-80%-20%step l	oad)						
Recovery Time		<201	ms(0%-100%-0%stepl	oad)						
Output THDu		<1%(linear load),<5%	(non-linear load acco	ording to IEC 62040-3)						
Overload		110%,1hour;125	5%,10 mins;150%,1 m	in;>150%,200ms						
Frequency Accuracy			0.1%							
Synchronize Window		Settab	le,+0.5Hz-±5Hz,defau	llt+3Hz						
Slew Rate		Settable	,0.5Hz/S-3Hz/S,defaul	t 0.5Hz/S						
Crest Factor			3:1							
Phase Accuracy			120°±0.5°							
System										
Efficiency		Normal I	Mode≥97%;Battery M	ode≥97%						
Display	LED+7inch touch		LED+10 inc	h touch LCD						
Certification-Safety		I	EC62040-1,IEC60950-	1						
Certification-EMS	IEC62040-2	;IEC61000-4-2(ESD);IE	C61000-4-3(RS);IEC61	000-4-4(EFT);IEC61000	-4-5(Surge)					
P Degree			IP20							
Configuration		USB,RS232,RS	485,Dry contact,Cold	start,Air filter						
Option	SNMP card,Exte	ended dry contact,Par	allel kit,SPD,APPWiFi/	Bluetooth,Up air supp	ly components					
Invironment	0-	-40℃(operation);-25~7	70(storage);0-95%(Hu	midity,non-condensinខ្	g)					
Noise(dB)(1meter)		68dB@	0100%load,65dB	%load						
Wiring Method	Front top feed,or op	tionalfront bottom	Compat	ible with top and botto	om feeds					
Dimention										
Cabinet(W*D*H)mm	600*750*1600	600*750*2000	600*850*2000	1200*8	50*2000					
Module(W*D*H)mm			440*475*140							

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 isplay theworking status and parameter formation of UPS inreal time,facilitating user management of UPS;



Load power factor of 0.9

Adapts to the characteristics of most currentelectrical equipment and increases the loadcarrying 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, dischargingAll 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									
nput	(3P+N+PE)								
Rate Voltage	380/400/415VAC(L-L);	220/230/240VAC(L-N)							
Rate Freq.	50/6	50Hz							
nput PF	>0.	.99							
Current Distortion	THDi<3%(100	%Linearload)							
Voltage Range	304-478VAC(L-L)full load;304-228VAC	C(L-L)power derate from 100%to 50%							
Freq.Range	40-7	70Hz							
Battery									
Rate voltage	±240VDC(adjustable	e for 30-50 sections)							
Charging Capacity	20%*	^k 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<="" td=""></load<125%,5>							
nverter									
Rate Voltage	380/400/415VAC(L-L);	220/230/240VAC(L-N)							
Rate Freq.	50/6	50Hz							
Output PF	1	1							
Voltage Accuracy	±1.	0%							
Load Response	<5%(20%-80%-	-20%step load)							
Recovery Time	<20ms(0%-100 ^o	%-0%step load)							
Output THDu	<1%(linear load),<5%(non-linea	r load according to IEC62040-3)							
Overload	110%,1hour;125%,10 mins	;150%,1 min;>150%,200ms							
requency Accuracy	0.1	1%							
Synchronize Window	Settable,+0.5Hz-±	±5Hz,default+3Hz							
Slew Rate	Settable,0.5Hz/S-3F	Hz/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	n touch LCD							
Certification-Safety	IEC62040-1,	,IEC60950-1							
Certification-EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3	3(RS);IEC61000-4-4(EFT);IEC61000-4-5(Surge)							
P Degree	IP:	20							
Configuration	USB,RS232,RS485,Dry co	ontact,Cold start,Air filter							
Option	SNMP card,Extended dry contact,F	Parallel kit,SPD,APPWiFi/Bluetooth,							
Environment	0-40°C (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*65	59*174							

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 lisplay theworking status and paramete nformation of UPS inreal time,facilitating user management of UPS;



Load power factor of 0.9

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



Grid friendly

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



Main Feature

- DSP full digital control, rectifier, inverter, charging, dischargingAll 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	N+PE)						
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)								
Rate Freq.		50/6							
Input PF		>0.							
Current Distortion		THDi<3%(100	%Linear load)						
Voltage Range	304-478VAC(L-L)full load;304-228VAC		100%to 50%					
Freq.Range	,	40-7	•						
Battery									
Rate voltage	±240VDC(adjustabl	e for 30-50 sections)Opt	ional480VDC(adjustable	e for 30-50 sections)					
Charging Capacity	` ,	20%*		,					
ChargingAccuracy		±1	%						
Bypass									
Rate Voltage		380/400/415VAC(L-L);	220/230/240VAC(L-N)						
Voltage Range	default -20%~+15%;upp	per limit:+10%,+15%,+20	0%,+25%;lower limit:-10	%,-15%,-20%,-30%,-40%					
Overload	11	0%,long time operation	;110% <load<125%,5 mi<="" td=""><td>ns</td></load<125%,5>	ns					
Inverter									
Rate Voltage		380/400/415VAC(L-L);	220/230/240VAC(L-N)						
Rate Freq.		50/6	60Hz						
Output PF		1	I						
Voltage Accuracy		±1.	0%						
Load Response		<5%(20%-80%-	-20%step load)						
Recovery Time		<20ms(0%-1009	%-0%step load)						
Output THDu	<1%(lin	ear load),<5%(non-linea	r load according to IEC6	2040-3)					
Overload	110)%,1hour;125%,10 mins;	;150%,1 min;>150%,200	ms					
Frequency Accuracy		0.1	1%						
Synchronize Window		Settable,+0.5Hz-±	5Hz,default+3Hz						
Slew Rate		Settable,0.5Hz/S-3H	lz/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	n touch LCD						
Certification-Safety		IEC62040-1,	IEC60950-1						
Certification-EMS	IEC62040-2;IEC6100	0-4-2(ESD);IEC61000-4-3	(RS);IEC61000-4-4(EFT);I	IEC61000-4-5(Surge)					
IP Degree		IP2	20						
Configuration	l	JSB,RS232,RS485,Dry co	ntact,Cold start,Air filte	r					
Option	SNMP card	l,Extended dry contact,F	Parallel kit,SPD,APPWiFi/	Bluetooth,					
Environment	0-40°C(ope	eration);-25~70(storage)	;0-95%(Humidity,non-co	ondensing)					
Noise(dB)(1meter)		72dB@100%load	,69dB @45%load						
Dimention									
Cabinet(W*D*H)mm	800*100	00*2000	1200*11	100*2000					
Module(W*D*H)mm		475*70)5*140						

>>> PowerX

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.





Energy saving green power with nigh input power factor and low THD





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;304-228VA	AC(L-L)power derate from 100%to 55%					
Frequency Range	40H	z~70Hz					
Power Factor(PF)	Full load>0.9	9,half load>0.98					
output							
Rated Voltage	380/400/415Vac	,50/60Hz,3ph+N+PE					
Power Factorr		1					
Maximum peak factor of		3:1					
System Parameter							
System Efficiency	96%(Li	near load)					
Module Average Flow	:	≤2%					
Wiring Method	Default top inlet and top ou	tlet,support bottom alignment					
AC lightning protection	Lightning pr	otection 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°℃(Batt	tery not included)					
Relative Humidity	5~95%Noi	n-condensing					
Altitudes	Start to referto IEC62040-3 stand	dard for frequency reduction above					
IP Degree	I	P20					
Noise(dB)(1 meter)	The noise level is measured at ambient temperature of 25 degrees						
Dimention							
W*D*Hmm	600*1100	0/1200*2000					

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



Wide input voltage andfrequency range Wide input voltage & frequency range asures stable mains operation in harsh



Energy saving

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



discharges and extending lifespan.

Active power factor correction via digita 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 mainspoweris normal Zero time, which can effectivelyensure the afety and reliability of the instrument.



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		1101	TT(L)	1102	TT(L)	1103	TT(L)	1106TT	(L)	L) 1110TT(L)		
apacity		1KVA/0	2KVA/	1.6KW	3KVA/2.4KW		6KVA/4.8KW		10KV	4/8KW		
nput								•				
onnection Mode					Sin	gle phase w	ith ground					
Iominal Voltage			200/2	08/220/230	/240VAC			2	208/220/23	30/240VAC		
oltago Pango			110-3	300VAC at 5	0%load;			11	0-300VAC	at 50%load;		
oltage Range			160-2	80 VAC at 1	00%load			176	5-300 VAC	at 100%load		
requency range				40Hz~70H	łz				46~54 Hz/	56~64 Hz		
ower factor						>0.8@100	%load					
Output												
Output Voltage			200/2	08/220/230	/240VAC			2	208/220/23	30/240VAC		
oltage range(Batter	y mode)					±1%						
	SYN Correction Range		47	~53 Hz/57~	63 Hz				46~54 Hz/	56~64Hz		
requency	Battery Model		50 Hz±	0.25 Hz/60l	Hz±0.3 Hz				50 Hz/60H	Hz±0.1Hz		
urrent Crest Ratio	-					3:01		I				
direit erese katio						3.01		1				
larmonic Distortion				THD (Linea IHD(Non-lin						near Load) -linear Load)	
	City Electricity/Battery					Zero)					
ransfer Time	Inverter/Bypass			4 ms(Typic	al)					_		
				- 1115(1) pic	ui,							
Vaveform(Batt.Mode	2)					Pure Sine	wave					
attery Type												
	Battery Type					12V/9AH	/7AH	ı		Г		
	Quantity	2	3	2	1	6	5	16	20	16	20	
Standard Unit)	Charging Current			1.0A(max	.)		Preset:1.0A±10%,max.:2.0A±10%			10%		
,	Charging Voltage	27.4 VDC±1%	41.0 VDC±1%	54 VDC		82 VDC		218.4 VDC ±1%	273 VDC±1%	218.4 VDC±1%	273 VDC±1%	
	Battery Type	According to the actual application with a number of battery boxes										
	Quantity	2 3 4 6 6 8 16~20(Adjustable)										
lattery External Long Back up Unit)	Charging Current		1A/2A	V4A/6A(Adj	ustable)			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	273 VDC±1%	
<u></u>			75 021 70	15 02 1 70	15 02 1 70	15 62 1 70	15 02 1 70	1362170	1362170	15 62 . 70	15 62 . 70	
fficiency ity Electricity Mode		88	%	89	9%	00	1%	92%		0:	3%	
attery Mode		83		87		88		90%			1%	
isplay Interface												
CD/LED			Load lev	el,Battery le	evel,AC mo	de,Battery n	node,Bypas	smode,and Faul	lt indicator	'S		
larm												
attery Mode						unding every						
ow Battery Overload						ounding eve ounding eve						
ault						ontinuously						
ontrol Managemer	nt						Ŭ					
mart RS-232/USB			Support	ts Windows	@2000/200	3/XP/Vista/2	008,Windo	ws®7/8/10,Linu:	x and MAC	:		
ptional SNMP					Support	SNMP Interr	net Managei	ment				
nvironment								1				
Relative Humidity			20-90%RH (ng)				(Non-conder		
loise Level hysical				<50dB @1	M			<55dB	@1M	<580	B@1M	
	Dimension: W*D*H(mm)	145*282*220	145*397*220	145*39	97*220	190*42	21*318	190*369*688		190*442*6	88	
	Net Weight(kg)	8.7	11.5	15	5.7	24	l.6	61	74	66	76	
	Dimension:	145*28	32*220		145*3	97 * 220		190*369*	⁺ 318	190*4	42*318	
ong Backup	Net Weight(kg)	3.9	4.1	6.		7.	.4	12			6	

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



Superior overload capacity



User-friendly design

LCD liquid crystal display,which can display theworking status and paramete nformation of UPS inreal time,facilitating

Grid friendly



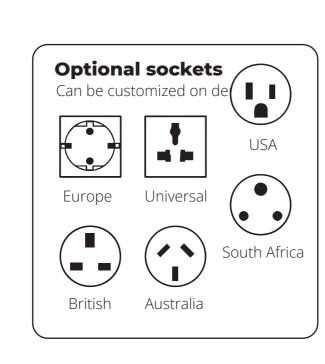
Can be used with agenerator

The wide range of input voltages andfrequencies isolates the bad powe



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
- Smat SNMP works wellwith either USB or RS-232 together
- Comprehensive display allows easy monitoringand access of UPS status



Model PGH		1101	TT(L)	1102	TT(L)	1103TT(L)	1106	TT(L)	1110	TT(L)
Capacity		1KVA/0	0.9KW	2KVA/	1.8KW	3KVA/2.7KW	6KVA/	′5.4W	10KVA/	9KW
Input										
Connection	Mode				Sing	gle phase with gro	und			
Nominal Vo	ltage	1	110/115/120	/127VAC 20	3/220/230/24	40VAC		208/220/23	30/240VAC	
Voltage Ran	nge .			0-300 VAC(B 0-300 VAC(Ba					ed on load at ! d on load at 1	
Frequency I	Range			40 Hz∼70	Hz			46~54 Hz	/56~64 Hz	
Power Facto	or					>0.9@100%load				
Output										
Output Volta		1	110/115/120	/127VAC 208	3/220/230/24			208/220/23	30/240VAC	
Voltage Reg	ulation					±1%				
Frequency	SYN Correction Range		4	7~53 Hz/57					/56~64 Hz	
Comment Com	Battery Model			50 Hz/60Hz	±0.5%	2.04		50 Hz/60I	Hz±0.1 Hz	
Current Cre	st Ratio			3%THD (Line	or Load)	3:01		<2%TUD/I i	near Load)	
Harmonic D	Distortion			6THD(Non -li			≤		-linear Load)	
Transfer Time	City Electricity/Battery					Zero	ſ			
	Inverter/Bypass			4 ms(Typi	cal)	D ==:		Ze	ero	
Waveform(E	<u>, </u>					Pure Sinewave				
Battery Typ		121//	10 A I-	121/	0.4.1-	121//045		12V/	(O.A.b.	
	Battery Type Ouantity	12V/ 2	9AN 3	12V/	9An 6	12V/9Ah 6	16	20	16	20
Battery Internal	Typical Recharge Time	2		s recover to			'		to 90%capac	
(Standard	Charging Current			1A			1A/2A			
Unit)	Charging Current	27.4VDC	41.0VDC	54.7VDC	82.1VDC	82.1VDC	218.4	273 VDC		273 VDC
	Charging Voltage	±1%	±1%	±1%	±1%	±1%	VDC±1%	±1%	±1%	±1%
	Battery Type				Depe	ending on applicat	tions			
Battery External	Quantity	3	3	(5	6	16∼20(Adjustable)			
(Long Back	Charging Current		1	.0A/2.0A/4.0	A/6.0 A		1A/2A/4A/	-	djustable,6A is only available for 16pcs batteries)	
up Unit)	Charging Voltage	41.0 VI	OC±1%	82.1 VI	OC±1%	82.1 VDC±1%	273 VD	C±1%(Based	l on 20pcs ba	tteries)
Efficiency										
City Electrici		88	3%	89		90%	92		939	
Battery Mod		83	1%	87	'%	88%	90)%	919	6
Display Inte	erface	· .								
LCD		L L	oad level,Ba	ttery level,Ci	ty Electricity	Mode,Battery mo	de,Bypass n	node,and Fa	ault indicators	
Alarm						1:				
Low Battery						nding every 4 seco unding every seco				
Overload						ding twice every se				
Fault					Co	ntinuously soundi	ing			
Control Ma	nagement									
Smart RS-23	32/USB		Supp	orts Windov	/s2000/2003	/XP/Vista/2008,Win	ndows7/8/10,	Linux and	MAC	
Optional SN	IMP			Power ma	anagement	from SNMP mana	ger and web	browser		
Environme	nt	<u> </u>					1		1	
Relative Humidity 2		20-90 %R	H@0-40℃(N	on-condens	ing)	0-95%RH (Non-con		0-95%RH ((Non-cond		
Noise Level			B@1M	<58dB	@1M					
Physical										
Standard	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	
Unit	Net Weight(kg)	9.8	11.4	17	26.2	27.6	61	74	66	76
LongBatck	Dimension: W*D*H(mm)	145*28		-	145*397*		190*36		190*442	
up	Net Weight(kg)	4	.4	6	8	7.6	1:	2	16	
	ince meigridag)	1 4.				7.0	<u>'</u>	_	1 10	

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 differentelectrical 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*/220/230/2	240 VAC			
Voltage Range		110-300 VAC(Based		0 VAC(Basedonloadat 100%)			
Frequency Range			40-70Hz				
Power Factor		2	0.99@nominal voltage((100%load)			
Harmonic Distortio	n (THDi)	-	≤5%@nominal voltage(1	100%load)			
Output							
Rated voltage			200*/208*/220/230/2	240 VAC			
Voltage range(Batte	ery Mode)		±1%				
-	SYN Correction Range		47∼53 Hzor57∼6	53Hz			
Frequeny	Battery Model		50 Hz±0.1Hz(60Hz±	0.1Hz)			
Current Crest Ratio)		3:1				
Harmonic Distortio	n	≤2%THE)(Linear Load);≤5%THD	(Non-linear Load)			
	AC to DC		Zero				
Transfer Time	Inverter/Bypass		4 ms(Typical)				
	ECO to Battery mode		8ms(Typical),10 ms	(max)			
Waveform(Batt.Mo	de)		Pure Sinewave	9			
Battery/Charger							
Battery Type			12V/9Ah				
Quantity		2 4 6					
Typical Recharge Ti		4hours recover to 90%capacity for internal battery					
Charging Current(C			1.5A				
Charging Voltage(F	V)	27.4VDC±1%	54.8VDC±1%	82.2VDC±1%			
Efficiency		T					
City Electricity Mod	e	96%	97%	97%			
D // 14 1		92%	93%	94%			
Battery Mode		86%	88%	91%			
Display Interface		Loadloval Pat	tony loval ACmada Patt	ery mode,Bypassmode,			
LCD		Loadievei, bat	andFault indicator \	•			
Control Managem	ent		and adit malcator v	Maleb			
Smart RS-232/USB		Supports Windows 200	00/2002/VB/Micta/2008	Windows7/8/10,Linux and MAC			
Optional SNMP		Power manag	ement from SNMP mar	nager and web browser			
Environment		T					
Humidity		20-90%RH@0-50℃(non-condensing)					
Noise Level		<	50dB @1m with Fan sp	eed control			
Standard		ı					
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			
		•	-				

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.



Grid friendly

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



Can be used with agenerator

User-friendly design LCD liquid crystal display,which can isplay theworking status and paramete

nformation of UPS inreal time, facilitating

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



Main Feature

- Strong overload capability
- High effciency 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



2.8"color touched LCD(option)

Model PGH		1106T	T(L)	1	110TT(L)			
Phase			1 phas	e in/1 phase out				
Capacity		6KVA	/6KW	10	KVA/10KW			
Input								
Rate Voltage			208/220/230/240 VAC					
Voltage Range				oad;176~300VAC:				
Frequency Range		46~!	54 Hz or56~64 Hz	;40 \sim 70Hz (In gen	erator mode)			
Power Factor				.99@fullload				
Harmonic Distortion	(THDi)		<4%@100%	Load;<6%@50%L	oad			
Output								
Rated voltage			208/2	20/230/240 VAC				
Voltage range(Batte	ry Mode)			±1%				
Frequency	SYN Correction Range		46~54	Hz or 56~64Hz				
пециенсу	Battery Model		50 Hz±0	.1Hzor60Hz±0.1Hz	<u> </u>			
Current Crest Ratio				3:1(Max)				
Harmonic Distortion	(THDv)	≤	1%THD(linear loa	d);≤4%THD(Non-l	inear load)			
Transfer Time	City Electricity /Battery			Zero				
Transfer Time	Inverter/Bypass			Zero				
Waveform(Batt.Mod	e)		Pu	re Sinewave				
Oceanies d	City Electricity Mode		100-105%Co	ntinue,105-125%f	or 10			
Overload	Battery Mode	100-1	10%3min,110-130	0%for 0.5min,>130	0%immediately			
Battery Type								
, , , , , , , , , , , , , , , , , , ,	Battery Type	12V/	/7Ah		12V/9Ah			
Dattanilatornal	Quantity	16	20	16	20			
Battery Internal	Typical Recharge Time	9hours recover to 90%capacity						
(Standard Unit)	Charging Current			1.0A				
	Charging Voltage	218.4 VDC±1%	240VDC±1%	218.4 VDC±1%	240VDC±1%			
	Battery Type			Lead Acid				
Battery External	Quantity			16-20**				
(Long Back up Unit)	Charging Current		1A	/2A/4A/6A/8A				
	Charging Voltage		(13.65VDCx	battery number):	±1%			
Efficiency								
City Electricity Mode	2			94%				
Battery Mode				92%				
Display Interface								
LCD		UPS statu		attery capacity,ing ne and fault indica	out/output voltage, ation			
Control Manageme	nt		2.22.10.80 11	and make				
Smart RS-232/USB		Supports Windo	ws2000/2003/XP	/Vista/2008,Windo	ows7/8/10,Linux and MAC			
Optional SNMP		Power n	nanagement fron	n SNMP manager	and web browser			
Environment								
Temperature and H	umidity		20-95%RH @0)-40℃(Non-conde	nsing)			
Noise Level		<55dE	3@1m	<5	8dB @1m			
Physical								
Standard Unit	Dimension:	1	90*442*688	190)*442*688			
Staffualu Uffil	Net Weight(kg)	51.5	60.5	60 70				
. 5 .	Dimension:		14	15*435*238				
LongBackup	Net Weight(kg)	8	.6		9.7			
	11011101101100		.~	l				

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



urrentelectrical equipment and increase he loadcarrying capacity of the machine

Extended functions

unctions via IS-B, AS400, C-monitoring



Energy saving



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			√12KW	20KVA/		30KVA/24KW
Input								
Connection Mode					Three-ph	ase +four wir	e	
Nominal Voltage						VAC(3Ph+N)		
		1		10		phase)@50%	6load	
Voltage Range					-	phase)@100		
				30:			₇₀₁ บสน	
Frequency range		<u> </u>			46~54 I	Hz/56~64Hz		
Output		I			200/222	/220/240/4		
Output Voltage						/230/240VAC		
Voltage range(Battery M		ļ				±1%		
Frequency	SYN Correction Range	ļ	4	6~54 Hz @		m/56~64 Hz		em
	Battery Model	ļ				Hz/60Hz±0.2	HZ	
Current Crest Ratio		-		-20/TUD"		(max.)	- 1:	-1)
Harmonic Distortion	Т		<u> </u>	≤3%1HD(L	inear Load)	≤5%THD(No	n-linear Loa	a)
Transfer Time	City Electricity/Battery					Zero		
	Inverter/Bypass	ļ				Zero		
Waveform(Batt.Mode)					Pure	Sinewave		
Battery Type	Dattam Trees	I		4.2	\/(O.A.I.I			
	Battery Type	1.0	20		:V/9AH	1.0	20	
	Quantity	16	20	16	20	16	20	
Battery Internal	Typical Recharge Time	ļ		91	hours recov	er to 90%cap	pacity	
(Standard Unit)	Charging Current	Preset 1A,1A/2A/4A(Adjustable)						
		218.4 VDC	273 VDC	218.4	273 VDC	218.4	273	
	Charging Voltage	±1%	±1%	VDC	±1%	VDC±1%	VDC±1%	
	B	Depends on the applicant						
	Battery Type				· ·			
Battery External	Quantity	16	20	16	20	16	20	16
	Charging Current	Preset 4A,1A/2A/4A(Adjustable)				12A		
(Long Back up Unit)	Charging Voltage	†		218.4				
		218.4	273 VDC	VDC	273 VDC	218.4	273	218.4 VDC±1%
		VDC±1%	±1%	±1%	±1%	VDC±1%	VDC±1%	210.4 VDC±1%
Efficiency		<u> </u>		±170				
City Electricity Mode		I	91	0/0		93	%	91%
Battery Mode		 	91			93 87	88%	
Display Interface			<u> </u>	. •		- 37		5570
LCD		System status,Load level,Battery level,AC mode,Battery mode,Bypass mode,						
		input/output voltage,and Fault indication						
Alarm		<u> </u>						
Alarm Battery Mode		I			Sounding	very 4 secon	nds	
Low Battery		 				every secon		
Overload		†				ery 0.5 secon		
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		<u> </u>	rowel	managell	ienicin Onn Si	vivii illallage	and WED	D1 0443CI
Relative Humidity		1		0-95	%RH @n-4n	°C(Non-cond	lensing)	
				0-33	<60c		10.131116/	
					-000	- W 1 1 V 1		
Noise Level						400455	T+C00	
	B		40011	24622			-XLUU	
Noise Level	Dimension:W*D*H(mm)		190*44	2*688		190*57	3.000	
Noise Level Physical	Dimension:W*D*H(mm) Net Weight(kg)	66	190*44 76	2*688 67	78	74	85	
Noise Level Physical	Net Weight(kg)	66	76	67	78	74	85	7E0*01E*02C
Noise Level Physical		66		67	78		85	 250*815*826

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 isplay theworking status and parameter iformation of UPS inreal time,facilitating user management of UPS;



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 andfrequencies isolates the bad power generatedby the generator to provide a pure, stablepower supply to the load.



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

- 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)			
hase			wire input/Three-phase fo				
apacity		10KVA/10KW	15KVA/15KW	20KVA/20KW			
aralleling Capability			4				
nput							
ate Voltage			3x380VAC(3ph+N+PE)				
oltage Range		110-300 V	AC@50%load;176-276 VAC	C@Load			
requency Range			40-70Hz				
ower Factor			>0.99@100%load				
larmonic Distortion(T	HDi)		Linearload<3%				
ottodosta		1 2.26	04/200/400/445.\/\C/2DLL	NI)			
ated voltage	Marda	3X36	0*/380/400/415 VAC(3PH+	-N)			
oltage range(Battery		 	±1%				
requency	SYN Correction Range	<u> </u>	46~54Hz or 56~64Hz				
urrent Crest Ratio	Battery Model		50/60Hz±1% 3:1(Max)				
armonic Distortion(T	THDv)	≤1%THD (Lir	near load);≤3%THD(Non-li	near load)			
	City Electricity/Battery		Zero	·			
ransfer Time	Inverter/Bypass		Zero				
/aveform(Batt.Mode)			Pure Sinewave				
verload capacity	·	100-110%60 minutes,111-125%1		ninute:>150%for 400ms			
attery Type			accs,				
	Battery Type	12V/9Ah	12V/9Ah	12V/9Ah			
ŀ	Quantity	(10+10)	(16+16)	(16+16)			
attery Internal	Typical Recharge Time	<u> </u>	ours recover to 90%capaci				
tandard Unit)	Charging Current	1	·	9			
•	Charging Voltage	±136.5 VDC	1A~12A(Adjustable) ±218 VDC				
	Battery Type	+	y boxes according to actua				
ŀ		· · · · · ·		··			
attery External	Quantity	16~32(optional);32~4(Optional)	20~32(optiona	al);32~40(Optional)			
ong Back up Unit)	Charging Current		1A~12A(Adjustable)				
•	Charging Voltage	±13.65V×N(N=16~20)					
ypass							
ated Voltage		3×	380/400/415 VAC(3PH+N)				
oltage Range		-30%~+20%(Adjustable)					
requency Range(Syn	chronized Range)		46~54Hz or 56~64Hz				
verload Capacity		>130%1minutes (default value)	continue to work until th	e circuit breaker is protecte			
fficiency							
ity Electricity Mode			96%				
CO Mode			99%				
isplay Interface		<u> </u>	96%				
isplay intellace		LIDS -t · · · · · ·	asita di bastica a cara di di				
CD		UPS status,load capacity,battery capacity,input/output voltage,					
		discha	arge time and fault indicat	LIOTI			
ontrol Management		-		= :- : : : :			
mart RS-232/USB		Supports Windows2000/20					
ptional SNMP		Power manageme	nt from SNMP manager a	nd web browser			
nvironment	* 19		7 1 2 1 2 10 2	1			
emperature and Hur	miaity		6relative humidity(non co	ndensing)			
titude**		-)~1500m under full load				
oise Level			<60dB @1m				
hysical	Dimension/M/+D+1//		250*620*027				
tandard Unit	Dimension:W*D*H(mm)	 _	250*630*827	105			
	Net Weight(kg)	93		125			
5 1	Dimension:W*D*H(mm)		250*630*827				
ong Backup Unit							

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.



Superior overload capacity

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



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

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	0-300 VAC@50%load;176-276 VA	AC@Load			
Frequency Range			40-70Hz				
Power Factor			>0.99@100%load				
Harmonic Distortion(Th	4Di)		Linear load<4%				
· ·	IDI)		Linear load 1470				
Output							
Rated voltage	Anda)		3×360*/380/400/415 VAC(3PH	I+N)			
Voltage range(Battery N			±1%				
Frequency	SYN Correction Range		46~54Hz or 56~64Hz				
Current Crest Ratio	Battery Model		50/60Hz±1% 3:1(Max)				
Harmonic Distortion(Th	4Dv)	<2%	THD(linear load);≤5%THD(Non-li	inear load)			
Transforme Discortion(11	City Electricity/Battery	3270	Zero	inear load)			
TransferTime	Inverter/Bypass		Zero				
Wayoform(Datt Mode)	iliverter/bypass		Pure Sinewave				
Waveform(Batt.Mode) Overload capacity		100-110%60 minutes	111-125%10 minutes,126%-150	%1minute:>150%for 400ms			
Battery Type		100-1107000 Hilliates,	111-125%10 Hilliates,120%-150	70111111dte,>13070101 4001113			
battery Type	Battery Type	12V/7Ah	12V/9Ah				
Datta a lata a al	Quantity	(16+16)*2	(16+16)*2				
Battery Internal	Charging Current	(10110) 2	2A	_			
(Standard Unit)		. / 12 CE VID C					
	Charging Voltage		*N±1%(N=16~20)				
	Battery Type	Multiple	battery boxes according to actu	ual application			
Battery External	Quantity	30~40(Optional)					
(Long Back up Unit)	Charging Current	1A~12A	(Adjustable)	1A~20A(Adjustable)			
	Charging Voltage	±13.65V×N(N=16~20)					
Bypass							
Rated Voltage	3×380/400/415 VA	(C(3PH+N)					
Voltage Range			305VAC~457VAC				
Frequency Range(Synch	hronized Range)		46~54Hz or 56~64Hz				
Overload Capacity		>130%1minutes (defaul	t value),continue to work until tl (optional)	he circuit breaker is protected			
Efficiency							
City Electricity Mode			95.5%				
ECO Mode			98.5%				
Battery Mode			94.5%				
Display Interface							
Display Interface		UPS status.lo	ad capacity,battery capacity,ing	out/output voltage.			
LCD			discharge time and fault indica				
Control Management							
Smart RS-232/USB		Supports Windows2	2000/2003/XP/Vista/2008,Windo	ows7/8/10,Linux and MAC			
Optional SNMP		Power man	Power management from SNMP manager and web browser				
Environment			5				
Temperature and Hum	idity	0-40°	C;0-95%relative humidity(Non c	condensing)			
Altitude**	,	3 10	0~1000m under full load	0			
Noise Level		<65dB@1m	<70dB @1m	<70dB@1m			
Physical							
	Dimension:W*D*H(mm)	300*815*1000	300*815*1000				
Standard Unit	Net Weight(kg)	207	233	_			
	Dimension:W*D*H(mm)	300*815*1000	300*815*1000	300*815*1000			
		300 013 1000	300 013 1000	200 012 1000			
Long Backup Unit	Net Weight(kg)	55	56	74			

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 telectrical systems, it can be set Fixed orautomatic recognition to suit 50Hz/60Hz.



Grid friendly

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

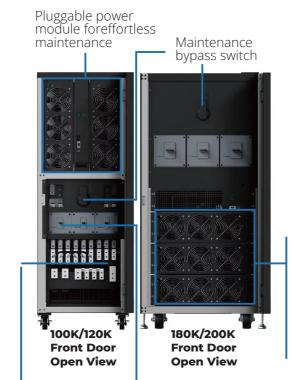
Can be used with agenerator

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



Front access design for terminal wiring

Mains input switch/ bypass switch / output switch Pluggable power module for effortless maintenance

Model PGH	3380TT(L)	33100TT(L)	33120TT(L)	33180TT(L)	33200TT(L)
Phase	ļ		3-phase in/3-phase (1
Capacity	80KVA/80KW	100KVA/100KW	120KVA/120KW	180KVA/180KW	200KVA/200KW
Battery Type			External Battery		
Paralleling Capability			4		
Input					
Rate Voltage		3x.	380/400/415 VAC(3P	H+N)	
Voltage Range		110-300 V	AC@50%load;176-27	6 VAC@Load	
NominalFrequency			50/60Hz(Auto sensir	ng)	
Frequency Range			40-70Hz		
Power Factor			>0.99@100%load		
Harmonic Distortion (THDi)			100%load<4%		
Output					
Rated voltage		3×	380/400/415 VAC(3P	PH+N)	
Voltage Degulation(Steady, state)		≤±	1%Typical(Balanced	load)	
Voltage Regulation(Steady state)		≤±29	%Typical(Unbalance	d load)	
Nominal Frequency			50/60Hz		
Frequency Range(Synchronized range)		46	5Hz~54Hz or56Hz∼6	54Hz	
Overload Capability	≤110%for1ho	ur,111%~125%f	for10 mins,126%~15	0%for1min and>1	50%for 200ms
Harmonic Distortion		≤2%THD(Lin	ear Load),4%THD(N	on-linear Load)	
Battery/Charger		,	"	,	
Rate Voltage		+/	-192V~+/-240V(Optio	onal)	
Maximum Voltage			+/-240V(12V×40 Pcs	s)	
Minimum Voltage			+/-192V(12V×32Pcs	5)	
Floating Charge Voltage		2.28	3V/Cell (2.25~2.33Op	tional)	
Boost Charging Voltage			2.35V/Cell		
Temperature Compensation			Support		
Maximum Charging Current					
Per Power Module)	24A(Adji	ustable)	36A(Adjustable)	54A(Adjustable)	54A(Adjustable
Bypass					
Rated Voltage		3×	380/400/415 VAC(3F	Ph+N)	
Voltage Range			-30%~+20%	11-14)	
Frequency Range(Synchronized range)	 	16	6Hz~54Hz or56Hz~6	54Hz	
Overload Capability	<110%for 1 ho		for 10 mins,126%~15		150%for 200ms
Efficiency	211070101 1110	d1,11170 125701	01 10 1111113,12070 13	50 70101 1 111111 and	13070101 2001113
City Electricity Mode			95.5%		
ECO Mode	1		98.5%		
Battery Mode			94.5%		
Control Management	•				
Smart RS-232/USB	Supports \	Windows2000/20	03/XP/Vista/2008,W	indows7/8/10,Lin	ux and MAC
Optional SNMP			nt from SNMP mana		
Environment					
Operating Temperature			0-40°C		
Operating Humidity	<95%(Non condensing)				
Altitude**		<1	000m for Nominal p	ower	
Standard					
Safety			IEC/EN 62040-1		
EMC	<u> </u>	IEC	C/EN62040-2 Catego	ry C3	
Physical					
P 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

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 themains 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 commu nicationcard, 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 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 theideal 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.



Input	Model PGH	33300TTL	33400LTTL	33500TTL	33600TTL
Input	Rate Power	300KVA	400KVA	500KVA	600KVA
Rate Voltage 380/400/415VAC(L-L);220/230/240VAC(L-N)	Main input				
Rate Freq. 50/60Hz 50.99	Input		3P5W(3P+N+PE)	
Input PF	Rate Voltage		380/400/415VAC(L-L);220/230/240VAC(L-N)	
Current Distortion THDi<3%(100%Linear load) Voltage Range 304-428VAC(L-L)full load; Freq.Range 40-70Hz Battery 40-70Hz Rate voltage ±240VDC Charging Capacity 20%*Pout Charging Accuracy ±1% Bypass 88	Rate Freq.		50,	/60Hz	
Sold-478VAC(L-L)/pull load; Sold-228VAC(L-L)/puwer derate from 100%to 75%	Input PF		>	0.99	
Voltage Range 304-228VAC(L-L)power derate from 100%to 75% Freq.Range 40-70Hz Battery 40-70Hz Battery V 20%*Pout Charging Capacity 20%*Pout Charging Accuracy ±1% Bypass 380/400/415VAC(L-L);220/230/240VAC(L-N) Soltage Range 50/60Hz Overload 110%,long time operation;110% <load<125%,5mins< td=""> 125%<load<150%,1min;>150%,1 second Inverter 8ate Freq. Rate Voltage 380/400/415VAC(L-L);220/230/240VAC(L-N) Solfoble 1 Unuput PF 1 Voltage Accuracy ±1.0% Load Response <5%(20%*80%;20%*step load)</load<150%,1min;></load<125%,5mins<>	Current Distortion		THDi<3%(10	0%Linear load)	
### 304–228VAC(L-L)power derate from 100%to 75% Freq.Range	Voltago Pango		304~478VA	C(L-L)full load;	
### Battery Rate voltage	voitage Narige		304~228VAC(L-L)power	derate from 100%to 75%	
Rate voltage	Freq.Range		40	-70Hz	
Charging Capacity 20%*Pout Charging Accuracy ±1% Bypass 380/400/415VAC(L-L);220/230/240VAC(L-N) Voltage Range 380/400/415VAC(L-L);220/230/240VAC(L-N) Overload 110%,long time operation;110%-load<125%,5mins 125%-cload<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 <50/(20%-80%-20%step load) Recovery Time <20m(50%-100%-0%step load) Output THDu <1%(linear load),<5%(non-linear load according to IEC62040-3) Overload 110%,1hour;125%,10 min;150%,1 min;150%,200ms Frequency Accuracy 0.1% Synchronize Window Settable,5.5Hz,5Hz,default.3Hz Slew Rate Settable,5.5Hz/S-3Hz/S,default 0.5Hz/S Crest Factor 3:1 Phase Accuracy 120*2.0.5° System Efficiency Normal Mode≥96%;Battery Mode≥96% Display LED+10 inch touch LCD Certification-EMS IEC62040-2;IEC61000-4-2(E	Battery				
Charging Accuracy ±1% Bypass 380/400/415VAC(L-L);220/230/240VAC(L-N) Voltage Range 50/60Hz Overload 110%,long time operation;110%-load<125%,5mins	Rate voltage		±24	10VDC	
Bypass Rate Voltage 380/400/415VAC(L-1);220/230/240VAC(L-N) Overload 110%,long time operation;110%-load<125%,5mins	Charging Capacity		20%	6*Pout	
Rate Voltage 380/400/415VAC(L-L);220/230/240VAC(L-N)	Charging Accuracy		±	:1%	
So/60Hz	Bypass				
110%,long time operation;110%-load<125%,5mins 125%-load<150%,1min;>150%,1 second 125%-load<150%,1min;>150%,1 second 125%-load<150%,1min;>150%,1 second 125%-load<150%,1min;>150%,1 second 125%-load<150%,1min;>150%,1 second 126%-load< 125%-load<150%,1min;>150%,1 second 126%-load< 125%-load< 125%-load<140%-load< 125%-load< 125%-load	Rate Voltage		380/400/415VAC(L-L);220/230/240VAC(L-N)	
Noverload	Voltage Range		50,	/60Hz	
125%- oad< 150%, min;>150%, second	Overload		110%,long time operation	on;110% <load<125%,5mins< td=""><td></td></load<125%,5mins<>	
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)	Overload		125% <load<150%,< td=""><td>1min;>150%,1 second</td><td></td></load<150%,<>	1min;>150%,1 second	
Rate Freq. 50/60Hz Output PF 1 Voltage Accuracy ±1.0% Load Response <5%(20%-80%-20%step load)	Inverter				
Output PF 1 Voltage Accuracy ±1.0% Load Response <5%(20%-80%-20%step load)	Rate Voltage		380/400/415VAC(L-L);220/230/240VAC(L-N)	
Voltage Accuracy	Rate Freq.		50,	/60Hz	
Continue	Output PF			1	
Commonstration	Voltage Accuracy		±	1.0%	
Output THDu	Load Response		<5%(20%-80%	%-20%step 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 Settable,0.5Hz/S-3Hz/S,default 0.5Hz/S 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°C (operation);-25°C ~70°C (storage);0-95% (Humidity,non-condensing) Noise(dB)(1meter) 72dB @100%load,69dB@45%load	•			·	
Frequency Accuracy Synchronize Window Settable,±0.5Hz-±5Hz,default±3Hz Slew Rate Settable,0.5Hz/5-3Hz/5,default 0.5Hz/5 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°C(operation);-25°C~70°C(storage);0-95%(Humidity,non-condensing) Noise(dB)(1meter) 72dB @100%load,69dB@45%load Dimention	•				
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°C(operation);-25°C~70°C(storage);0-95%(Humidity,non-condensing) Noise(dB)(1meter) 72dB @100%load,69dB@45%load Dimention					i
Slew Rate Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S Crest Factor Phase Accuracy 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 IP 20 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)(1 meter) 72dB @100%load,69dB@45%load Dimention					
Crest Factor3:1Phase Accuracy120°±0.5°SystemEfficiencyNormal Mode≥96%;Battery Mode≥96%DisplayLED+10inch touch LCDCertification-SafetyIEC62040-1,IEC60950-1Certification-EMSIEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS); IEC61000-4-4(EFT);IEC61000-4-5(Surge)IP DegreeIP20ConfigurationUSB,RS232,RS485,Dry contact,Cold start,Air filterOptionSNMP card,AS400 card,Parallel kit,SPD,LBSEnvironment0-40°C(operation);-25°C~70°C (storage);0-95%(Humidity,non-condensing)Noise(dB)(1 meter)72dB @100%load,69dB@45%loadDimention	•				
Phase Accuracy 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					
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EfficiencyNormal Mode≥96%;Battery Mode≥96%DisplayLED+10inch touch LCDCertification-SafetyIEC62040-1,IEC60950-1Certification-EMSIEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS); IEC61000-4-4(EFT);IEC61000-4-5(Surge)IP DegreeIP20ConfigurationUSB,RS232,RS485,Dry contact,Cold start,Air filterOptionSNMP card,AS400 card,Parallel kit,SPD,LBSEnvironment0-40 °C(operation);-25 °C ~70 °C(storage);0-95%(Humidity,non-condensing)Noise(dB)(1meter)72dB @100%load,69dB@45%loadDimention	,		120	°±0.5°	
Display LED+10inch touch LCD Certification-Safety IEC62040-1,IEC60950-1 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°C(operation);-25°C~70°C(storage);0-95%(Humidity,non-condensing) Noise(dB)(1meter) 72dB @100%load,69dB@45%load Dimention		T		v. 5	
Certification-Safety IEC62040-1,IEC60950-1 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°C (operation);-25°C~70°C (storage);0-95% (Humidity,non-condensing) Noise(dB)(1meter) 72dB @100%load,69dB@45%load Dimention					
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	Display		LED+10ino	ch touch LCD	
IEC61000-4-4(EFT);IEC61000-4-5(Surge) IP Degree	Certification-Safety		IEC62040-	1,IEC60950-1	
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°C (operation);-25°C~70°C (storage);0-95% (Humidity,non-condensing) Noise(dB)(1meter) 72dB @100%load,69dB@45%load Dimention	C CC C FMC		IEC62040-2;IEC61000-4	-2(ESD);IEC61000-4-3(RS);	
Configuration USB,RS232,RS485,Dry contact,Cold start,Air filter Option SNMP card,AS400 card,Parallel kit,SPD,LBS Environment 0-40°C (operation);-25°C~70°C (storage);0-95% (Humidity,non-condensing) Noise(dB)(1meter) 72dB @100%load,69dB@45%load Dimention	Certification-EMS		IEC61000-4-4(EFT)	;IEC61000-4-5(Surge)	
Configuration USB,RS232,RS485,Dry contact,Cold start,Air filter Option SNMP card,AS400 card,Parallel kit,SPD,LBS Environment 0-40°C (operation);-25°C~70°C (storage);0-95% (Humidity,non-condensing) Noise(dB)(1meter) 72dB @100%load,69dB@45%load Dimention	IP Degree		I	P20	
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	-		USB,RS232,RS485.Drv (contact,Cold start.Air filter	
Environment 0-40°C (operation);-25°C~70°C (storage);0-95% (Humidity,non-condensing) Noise(dB)(1meter) 72dB @100%load,69dB@45%load Dimention					
Noise(dB)(1meter) 72dB @100%load,69dB@45%load Dimention		0-40°C(or			ndensing)
Dimention		0-40 ((0)		-	idensing)
			/2dB @100%loa	ad,69dB@45%load	
W*D*H(mm) 600*1000*2000 1200*1100*2000	Dimention				
	W*D*H(mm)		600*1000*2000		1200*1100*2000

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



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



LCD liquid crystal display,which can isplay theworking status and parameter nformation 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 environmentally friendly and energy 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.



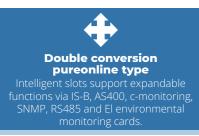
Applications

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);220/230/2	40VAC(I -N)
			40VAC(L-IV)
Rate Freq.		50/60Hz	
Input PF		>0.99	
Current Distortion		THDi<3%(100%Linear lo	ad)
Voltage Range	304~478VAC(L-L)full load;304~228VAC(L-L)powe	er derate from 100%to 75%
Freq.Range		40-70Hz	
Battery			
Rate voltage		±240VDC(32-44 sections se	ttable)
Charging Capacity		20%*Pout	
Charging Accuracy		±1%	
Bypass			
Rate Voltage		380/400/415VAC(L-L);220/230/2	40VAC(L-N)
	Adjustable volta	ge,default-20%~+15%;upper lin	nit:+10%,+15%,+20%,+25%;
Voltage Range		lower limit-10%,—15%,-2	
	1109	6,long time operation;101% <loa< td=""><td></td></loa<>	
Overload		125% <load<150%,1min;>150%</load<150%,1min;>	
Inverter		, , , , , , , , , , , , , , , , , , , ,	,
Rate Voltage		380/400/415VAC(L-L);220/230/2	40VAC(L-N)
Rate Freq.		50/60Hz	
Output PF		1	
Voltage Accuracy		±1.0%	
Load Response		<5%(20%-80%-20%step l	oad)
Recovery Time		<20ms(0%-100%-0%step	
Output THDu		<1%(Linearload),<5%(Non-line	
Overload	110%	,1hour;125%,10 mins;150%,1 m	in;>150%,200ms
Frequency Accuracy		0.1%	
Synchronize Window		Settable,±0.5Hz-±5Hz,defau	ılt±3Hz
Slew Rate		Settable,0.5Hz/S-3Hz/S,defaul	t 0.5Hz/S
Crest Factor		3:1	
Phase Accuracy		120°±0.5°	
System			
Efficiency		Normal Mode≥97%;Battery M	ode≥97%
Display		LED+10inch touch LCI	
Certification-Safety		IEC62040-1,IEC60950-	1
-	IFC	62040-2;IEC61000-4-2(ESD);IEC6	51000-4-3(RS);
Certification-EMS	-	IEC61000-4-4(EFT);IEC61000-4	, ,,
IP Degree		IP20	. 5-7
Configuration	LIC	B,RS232,RS485,Dry contact,Cold	start Air filter
-		SNMP card,AS400 card,Parallel	
Option Environment		SNIMP card,AS400 card,Parallel $^\circ$ 0n);-25 $^\circ$ C $^\circ$ 70 $^\circ$ C(storage);0-95%(F	
Noise(dB)(1meter)	0-40 C(operation	72dB@100%load,69dB @45	
Dimention		, 200@ 100 /00au,0300 @43	, , , , , , , , , , , , , , , , , , ,
W*D*H(mm)	2000*1100*2000	2800*1100*2000	3400*1100*2000

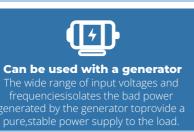
PGH Series High Frequency online Rack UPS Single Phase In Single Phase Out

1~10KVA











Product Description

Coolnet PGH series rack type UPS is the double transformation on-line technology, support more than 3sets parallel work, and support the function of sharing battery pack when in parallel mode; online UPS canprovide 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) 1110R1			
Capacity		1kVA/0.8kW	2kVA/1.6kW	3kVA/2.4kW	6kVA/4.8kW	10kVA/8kW		
Input								
Connection Mode		Single Phase +Ground						
Input Voltage			20	0/208/220/230/240\	/ac			
Voltage Range				110-300Vac				
Frequency Range				40-70Hz				
Power Factor				0.8				
Output								
Output Voltage			20	0/208/220/230/240\	/ac			
Voltage Regulation				±1%				
Fraguena	SYN Correction range			46-54Hz/56-64Hz				
Frequency	Battery Model		50	Hz±0.1Hz/60Hz±0.1	Hz			
Distortion (THDU)				≤3%				
Peak Coefficient				≥3:1				
Overload Capacity		110%,convey to	bypass after 1h;125	%,convey to bypass	after 10 min;150%,c	onvey to bypass		
Transfer	City power/Battery			0ms				
Time Inverter/Bypass		≤4m:	s(standard environn	nent)	0ms			
Battery Type								
	Quantity	2	4	6		/		
Battery Internal	Charging Current	1.0A(Max)				/		
internal	Battery Model		12V 9AH			/		
_	Quantity	3	6	8	16(16-20	optional)		
Battery External	Charging Current	1A/2A/4A/6A settable						
External	Battery Model	Depends on the applicant						
Efficiency								
City Electricity Mod	de		≥91%		≥9	3%		
Battery Mode			≥91%		≥9	3%		
Display Interface								
LCD/LED		Loading Size,Batt	ery Capacity,City Ele	ectricity Mode,Batter	y Mode,Bypass Mod	e,Fault Indication		
Control Managem	ent							
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	Dimension:	438*310*88	438*410*88	438*630*88	/	1		
Unit	Net Weight(kg)	12	18	29	/	/		
Long Backup	Dimension:	438*310*88	438*4	10*88	438*530*88	438*530*133		
Unit	Net Weight(kg)	5	7	8	12	16		

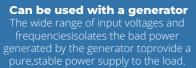
PGH Series High Frequency online Rack UPS Single Phase In Single Phase Out 1~10KVA







Load power factor of 0.9



Main Feature

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input votage 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 managementcenter, 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 highwayand railway tunnels metal halide lamp lighting system.







Model PGH		11011	RT(L)	1102RT(L)	1103RT(L)	1106	RT(L)	1110	RT(L)
Capacity		1KVA/0).9KW	2KVA/1.8KW	3KVA/2.7KW	6KVA/	5.4KW	10KV	A/9KW
Input									
Connection Mode	<u> </u>			S	ingle Phase+Ground				
Nominal Voltage			110/115/1	20/127VAC or 208/220/230	-		208/220/23	RO/240VAC	
TVOITIITIAI VOITAGE									5000
Input Voltage				or 120-300 VAC(Based on lo r 180-300 VAC(Based on loa			00 VAC(Base 00 VAC(Base		
Frequency Range				40 Hz∼70 Hz			46~54 Hz o	r 56~64Hz	
Power Factor					0.9				
Output									
Output Voltage			110/115/1	20/127VACor 208/220/230/	240VAC		208/220/23	30/240VAC	
Voltage Regulatio	n				±1%	1			
	SYN Correction range			47~53 Hz or 57~63 Hz	<u> </u>	4	5Hz~54 Hz or	56Hz~64 F	17
Frequency	Battery Model			50 Hz or 60Hz±0.5%		-	Hz±0.1 Hz o		
Current Crest Rat	-		3:01		1				
current crese nac	10			3%THD (Linear Load)	5.01	1	3%THD(Lin	near Load)	
Harmonic Distorti	ion			6%THD(Non-linear Load)			5%THD(Non-		
	City power/Battery			Zero			0n		
Transfer Time	Inverter/Bypass			4 ms(Typical)			0n		
Waveform(Batt.M				(.) p,	Pure Sinewave	I			
Battery Type	oucy				T die Sillewave				
battery Type	D-thora Tura	121/10	AL	12)//0 Ab	13)//0.45		121//0	A I-	
	Battery Type	12V/9		12V/9 Ah	12V/9Ah		12V/9		
	Quantity	2	3	4	6	16	20	16	20
Battery Internal	Typical Recharge Time		4 h	ours recover to 90%capacity	У	9 h	ours recover	to 90%capa	city
-	Charging			1A			1A/2A (Ad	ljustable)	
	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 Type			Dep	ending on applications				
	Quantity	3		6	6	16~20(Adjustable)			
Battery External	Charging				-	1A/2	A/4A/6A(Adju		only
	Current(max.)			1.0A/2.0A/4.0A/6.0A			ailable for 16		-
	Charging Voltage	41.0 VD	C±1%	82.1VDC±1%	82.1 VDC±1%	218.4 VI	OC±1%(Based	on 16pcs b	atteries)
Efficiency				Depen	ds on the applicant				
City Electricity Mo	de	88	%	89%	90%	9:	2%	90)%
Battery Mode		83	%	87%	88%	91	0%	91	%
Display Interface	е								
LCD			Loading S	ize,Battery Capacity,City Ele	ctricity Mode,Battery Mode,E	Bypass Mode	Fault Indicati	on	
Control Manage	ment								
Smart RS-232/US	В		Su	pports Windows@2000/200	03/XP/Vista/2008,Windows 7	7/8/10,Linux a	and MAC		
OptionalSNMP				Support	SNMP Internet Management	t			
Environment									
Relative Humidity	1		20-909	%RH @0-40℃(Non-condens	sing)	0-959	6RH @0-40℃	(non-conde	nsing)
Noise Level				<50dB@1m		<55d	B@1m	<58dE	3@1m
Physical									
						UPS	UPS		·
						Unit:438*	Unit:438*	UPS	Unit:
		420+240+00		420+410+00	420+620+00	500*88	500*88[2U]	438*580	
		438*310*88		438*410*88	438*630*88	[2U] Battery	Battery Pack:	Batter	y Pack:
Ctondord Unit						Pack:	438*580*	438*580	*133[3U]
Standard Unit						438*668*	133[3U]		
						UPS	UPS Unit:	UPS Unit:	UPS Unit:
	NI-ENA/-: 1.// N	12	444	4.0	20.2	Unit:15	15	18	18
	Net Weight(kg)	12	14.1	19	29.3	Battery	Battery	Battery	Battery
						Pack:48	Pack:61	Pack:51	Pack:61
Long Backup	Dimension:W*D*H (mm)	438*31	10*88	438*410*88	438*460*88	438*50	0*88[2U]	438*580	*133[3U]
Unit	Net Weight(kg)	9	1	12	14.2	1	5	1	8
	I				l	1			

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.





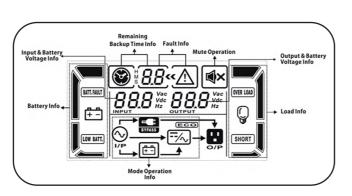
Grid friendly





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		110	1RT	1102RT 1103				
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%	6@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 Distorti	on(THDi)		≤5	%@nominal input	voltage			
Output								
Output Voltage			100*/110*/115*/12	20/127 VAC or 200*	/208*/220/230/240) VAC		
Voltage Regulation	า			±1%				
Frequency	SYN Correction Range Battery Model		6(57~63 Hz or 47~:				
Current Crest Rati			00	3:1(max.)	.±V, 1112			
Harmonic Distorti			<2%THD/I in	ear Load);≤4%THD	(Non-linear Load)			
Tarmonic Distorti			≟∠ /0111D(LIII	car Loduj, 2470111D	(14011 IIIIEai Luau)			
Transfer Time	City power/Battery	0ms						
	Inverter/Bypass			4 ms(Typical)				
Waveform(Batt.Mo	ode)			Pure sine wave	е			
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.)				ult 2A,max.8A adju ult 2A,max.12A adj			
Charging Voltage		27.4VDC±1%	41.1VDC±1%	54.8VDC±1%	82.1VDC±1%	82.1VDC±1%		
Efficiency								
City Electricity Mo	de	≥89%@full ch	arged battery	≥9	91%@full charged b	oattery		
ECO Mode			≥9	96%@full charged b	pattery			
Battery mode		≥8	8%		≥90%			
Control Managen	nent							
Smart RS-232/USB	3	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%	6RH @0-40℃(non-c	condensing)			
Noise Level		<50dB@1m						
Altitude		10%	de-rating for over	1000m(The altitude	e should not excee	d 3000m)		
Physical								
Dimension:W*D*F	H(mm)	438*4	10*88	438*510*88	438*630*88	438*630*88		
	Without Battery	6.6	7.8	9.6	10.6	12.4		
Net Weight(kg)	W/Built-int Battery	11.6	14.1	19.5	23.3	27.5		

PGH Series High Frequency online Rack UPS Single Phase In Single Phase Out

6~10KVA



time,which can effectivelyensure the safety and reliability of the instrument





DSP

DSP digital control technology

rectification,inverter,charging,and discharge are digitally controlled.



Can be used with a generator

formation of UPS inreal time,facilitating user management of UPS;

The wide range of input voltages and frequencies isolates the bad power



Accessory

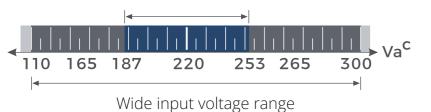
Main Feature

- 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



Relay Card

SNMP Card



Voltage Range			110~300VAC±3%at 50%loa	ad;176~300VAC±3%at 100%l	oad		
Frequency Range		46-54 Hz◎50 Hz/56-64 HzO60 Hz					
Power Factor			≥0.99@full load				
HDi		<4%@100%Load,<6%@50%Load					
Output	·						
Output Voltage			208*/22	0/230/240 VAC			
Voltage Regulation	1			±1%			
	SYN Correction range		46-54 Hz◎50	Hz/56-64 Hz◎60 Hz			
Frequency	Battery Model		50Hz±0.1F	lz or 60Hz±0.1Hz			
Current Crest Ratio	-			:1(max.)			
Harmonic Distorti	on		≤1%THD (Linear Load	l),≤4%THD(Non-linear Load)			
	City power/Battery			0ms			
Transferr Time	Inverter/Bypass			0ms			
Waveform(Batt.M	oae)		Pure	e Sinewave			
Overload	City power Mode		100%~110%:10min,11	0%~130%:1min,>130%:1sec			
	Battery Mode		100%~110%:30sec,110	0%~130%:10sec,>130%:1sec			
Battery Type							
	Battery Type	12V/9/	Ah		12V/9Ah		
	Quantity	16	20	16	20		
tandard Model	Typical Recharge Time	<u>. </u>	9 hours reco	ver to 90%capacity	L		
	Charging Current(max.)			1A			
	Charging Voltage	218.4 VDC±1%	273 VDC±1%	218.4 VDC±1%	273 VDC±1%		
	Battery Type		Depending	g on applications			
	Quantity			6-20**			
ana wa Madal	Qualitity		·	0-20			
Long-run Model	Charging Current (max.)			4.0A			
	Charging Voltage		(13.65VDCx battery number)±1%				
Efficiency							
City power Mode		94%			94%		
CO Mode		98.59	%		98.5%		
Battery Mode	T	92%			92%		
Display Interfac	e						
_CD		UPS status,Load	d level,Battery level,Input/Ou	ıtput voltage,Discharge time	r,and Fault conditions		
Control Managen	nent						
Smart RS-232/USE	3	Suppor	ts Windows2000/2003/XP/Vi	sta/2008,Windows®7/8/10,L	inux and MAC		
Optional SNMP			Support SNMP	Internet Management			
Environment							
Relative Humidity			20-90%RH @0-4	10°C(Non-condensing)			
Noise Level		<55dB@	91m		58dB@1m		
Physical							
		UPS Unit:	UPS Unit:	UPS Unit:	UPS Unit:		
	Discount of MANAGER 17	438x610x88[2U]	438x610x8[2U]	438x610×88[U]	438x610x8[2U]		
	Dimension:W*D*H(mm)	BatteryPack:	Battery Pack:	Battery Pack:	Battery Pack:		
Standard Unit		438×715×88 [2U]	438x600×133[2U]	438x715×88[2U]	438x600×133[2U]		
		LIDC Linit:17	LIDC Unit:17	LIBC Linit: 20	LIDS Hait: 20		

Model PGH 1110RT(L) Capacity 6KVA/6KW 10KVA/10KW Phase 1 phase in/1phase out Input Nominal Voltage 208/220/230/240 VAC UPS Unit:17 UPS Unit:17 UPS Unit:20 UPS Unit:20 Net Weight(kg) Battery Pack:57 Battery Pack:53 Battery Pack:63 Battery Pack:48 438*610*88[2U] 438*610*88[2U] Dimension·W*D*H(mr Long Backup Unit Net Weight(kg) 20

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



Real time monitoring and alarm ime,andimmediately give an alarm if any abnormality is found.

3



DSP

DSP digital control technology

rectification,inverter,charging,and



cause harm topeople 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 +Groun	ıd			
Input Voltage			380/400/415VAC				
Voltage Range		285~520VA	C@100%Load176~520\	/AC@50%Load			
Frequency Range			40~70HZ				
Power Factor			≥0.99				
Output							
Output Voltage			200/208/220/230/240\	/ac			
Voltage Regulation			±1%				
Frequency	SYN Correction Range		46~54Hz/56~64Hz				
	Battery Model		50Hz±0.1Hz/60Hz±0.1	Hz			
Distortion(THDU)		≤2%(l	_inear load)≤3%(Non-li	ner load)			
Peak Coefficient			≥3:1				
Overload Capacity	load Capacity 110%,convey to bypass after 1h;125%,con 10min;150%,convey to bypass a						
	City power/Battery		0ms				
Transfer Time	Inverter/Bypass		0ms				
Battery Type							
Quantity		20	32-40	optional			
Charging Current			1A/2A/4A/6A/12A setta	able			
Battery Mode			Depends on the applic	ant			
Efficiency							
City Electricity Mod	e	96					
Display Interface							
LCD/LED			/ Capacity,City Electrici /pass Mode,Fault Indic				
Control Managem	ent						
Smart RS-232/USB		Supports Windows®2000/2003/XP/Vista/2008, Windows®7/8/10,Linux and MAC					
Optional SNMP			ort SNMP Internet Man				
Environment							
Temperature			0-40℃				
Relative Humidity 0-95%(Non Condensing)		ng)					
Noise Level		<62dB@1m	<65d	B@1m			
Physical							
Dimension:W*D*H(mm)	438*6	80*133	438*680*266			
Net Weight(kg)			29	<u> </u>			

PGH Series High Frequency online Rack UPS Three Phase In Three Phase Out

10~60KVA



time,which can effectivelyensure the safety and reliability of the instrument





energy and cut system costs



Can be used with a generator

The wide range of input voltages and frequenciesisolates the bad power pure, stable power supply to the load.



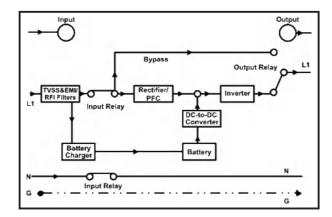
Main Feature

- 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

Operating Principle

The Operating Principle of the UPS isShown as below

- 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



		224077(1)	224557(1)	222277(1)	222277//	22 (22 7/1)	226227/1			
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 Input	У				4 max					
Connection Mo	do			Thro	e in,three out					
	ue									
Rated Voltage					0 VAC(3PH+N)					
Voltage Range		19	90-520 VAC(thre	•		VAC(3 phase)@100)%load			
Frequency Rang	ge	46~54Hz/56~64Hz								
Power Factor				≥0.9	99100%load					
Output		1		2260+/200/	100/415 \/\(\alpha\)	11.10				
Rated voltage	v (Patt Mode)			3X36U^/38U/2	100/415 VAC(3P	H+N)				
Output Accurac	ĺ	±1%								
Harmonic Distorti	SYN Correction range			46~5	4Hz/56~64Hz					
Battery Model		50 Hz±0.	1Hz/60 Hz±0.1H	Z						
Current Crest Ratio Harmonic Distortion		3:1(max.)								
Harmonic Disto	ortion		≤1%T	HD (Linear Loa	d)≤3%THD(Non	-linear Load)				
Transfer Time	City power/Battery	0 ms								
Transier Time	Inverter/Bypass	0ms								
Waveform(Batt.Mode)		Pure sine wave								
	City Electricity Mode	100-110%60 minutes,110 -125%10 minutes,125% -150%1 minute;>150%Immediate protection								
Overload	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	Quantity		20 32~40(Adjustable)							
Maximum Char	raina Current		1A~12A(Adjustable)			1A~16A	1A~18A			
Maximum Char	ging current		TA~TZA(A0	justablej		1A~16A 1A~18A (Adjustable) (Adjustable				
Charging Voltag	ge	±13.65 VDC				=16~20)				
Efficiency		XII(II 10)								
City Electricity I	Mode				≥95.50%					
ECO Mode		≥98.50%								
Battery Mode		≥94.50%								
Control Manag	ement									
Smart RS-232/U		Support for Windows ®Series,Linux and MAC								
Optional SNMP		Power management support for SNMP management and network management								
Environment										
Relative Humidity			0-95%relative	temperature 0-40°℃						
Noise Level		<62dB@1m		- <70dB@1m						
Physical				<65dB@1m						
Dimension:W*D	*H(mm)		680*438*	797*438*176[4U]						
Net Weight(kg)		27	3	0	32	40	45			

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



Zero Switc

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

DSP

DSP digital control technology

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



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.lt 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
- Superbload 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
Model Pd1											
Capacity	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA
	/9KW	/13.5KW	/18KW	/27KW	/36KW	/54KW	/72KW	/90KW	/108KW	/144KW	/180KW
Host Machine Specification											
UPS Structure	Online Double Conversion										
Appearance	Low Frequency with Output Isolated Transformer										
Overall fficiency(AC-AC) Noise (In 2 Meters)		90% <50-60dB									
Working Temp.						-10-40					
Storage Temp.					-25^	~60°C(Witho					
Humidity	<95%,Non-Condensing										
National Standard	EN50091-1/IEC950										
International Standard	EN 50091-1/2;EN62040-1;EN62040-2										
Parallel Redundancy Protection	Available up to 8units Overload,Short-Circuit,Over Temp.,Utility Power Voltage High/low,BAT Voltage High/low										
ECO			Overioau	,311011-01100	it,Over Terrip	Availab		II/IOW,BAT VC	ilage High/lov	v	
EPO Function						Availab					
DC Start					Avail	able(Not Rec	ommended)				
Generator Compatibility						Availab	le				
Display		5-7 inch LCD	colortouch	screen+LED	working indi		ing Input/Out	put Voltage,F	requency,Cur	rent,Power,Lo	ad
Mute Cabinat Standard						Auto IP20					
Cabinet Standard Cooling System					Intelliga		trol Cooling F	an			
Elevation						500M,Withou					
Rectifier Specification											
Input Voltage					38	0Vac+N+W(3	phase+PE)				
Input Voltage Range						285-475					
Input Frequency Range	45-65Hz										
Input PF	0.95(with input filter)										
THDI	<5%(with optional accessories)										
DualInput Availability Input Mis Phase Protection	Available(Optional accessories) Misphase Alarm, UPS will not be started										
Input Phase lost Protection							ork on Bypass				
Soft-Start						>20 Seco					
Input Current	23A	31A	39A	54A	70A	100A	125A	160A	192A	256A	320A
Output Specification											
Output Voltage				Line Vo	ltage:380×(1		ase Voltage:2	20×(1±1%)A	3		
Output PF			2011 . 10115	: 1 100	2011 - 201151	0.8/0.9(No	<u> </u>	4	20/6 11 61		
Output Voltage Regulation	380Vac±1%(Static Load);380Vac±2%(50-0%Sudden Change);380Vac±3%(100-0%Sudden Change) ±8%at 50Hz:Online Mode tracking input and bypassfreq.;±0.1%:when input or bypassfrequency is more than±8%or under BAT Mode										
Output Freq THD	±8%d	it 50HZ:Online	wode trackii				Non-Linear F		ris more than:	±8%or under i	BAT Mode
3 Phase Unbalanced					•		%Unbalanced				
Output Volt.Unbalanced				:			(50%Balanced				
Input/Output Phase Swift					≤1°(Balance	ed Load);≤2°(50%Balanced	Load)			
Frequency Tracking Range	45-65Hz										
Output Waveform	Pure Sine Wave										
Overload Creat Patia	>125%:More than 10 mins;>150%:More than 60s transfer to bypass										
Crest Ratio ShortCircuit	3:1										
Output Abnormal	Circuit Auto-Protection,Bypass Switch Tripping INV.Output AuteLocked Protection										
Bypass Specification						<u>'</u>					
Static Bypass Transfer Time	Oms										
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											
Battery Specification											
Charging Methods											
Туре	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										
	BAT over-charged,Emergency charger shutdown protection or UPS shutdown protection										
Abnormal Protections			ation								
Abnormal Protections Communication Specification	on										
Abnormal Protections Communication Specification Communication Port	on						act(OptionalA				
Abnormal Protections Communication Specification Communication Port Remote Software	on		Multi-func						,Remote Conti	rol	
Abnormal Protections Communication Specification Communication Port Remote Software Physical Parameters	on			tional Monit	oring System	n,Online and	BAT Mode Sta	atus,BATFault			
Abnormal Protections Communication Specification Communication Port Remote Software	210	475*990*700 223		tional Monit		n,Online and		atus,BATFault	,Remote Contr 600*800 750		850*850 855

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





Real time monitoring and alarm





Can be used with agenerator



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 Factor 0.9 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	200KVA	250KVA	300KVA	400KVA	500KVA	600KVA			
cupacity	/144KW	/180KW	/225KW	/270KW	/360KW	/450KW	/540KW			
Host Machine Specification										
	UPS Structure Online Double Conversion Appearance Low Frequency with Output Isolated Transformer									
Appearance		Low								
Overall fficiency(AC-AC) ECO			94%(With Op	tional Accessorie	es)					
Noise (In 2 Meters)				67dB						
Working Temp.										
Storage Temp.	0-40℃ -15~50°(Without Batteries)									
Humidity	-15~50℃(Without Batteries) <95%,Non-Condensing									
National Standard	<95%,Non-Condensing IEC60950-1,IEC62040-1-1									
International Standard	IEC62040-2,IEC62040-3									
ParallelRedundancy	Parallel Redundancy Up to 8 Units									
Protection	(Overload,Short-Circuit,			ligh/low,BAT Vo	ltage High/low				
DC Start				vailable						
Generator Compatibility		150.0:1		vailable	C					
Display		LCD Displ	ay(Multi-Language		f messages)+LEL)				
Mute Cabinet Standard				Auto IP20						
Cooling System			Intelligent Spec	d Control Cooling	g Fan					
Elevation				Vithout Derated	5 1 011					
Rectifier Specification			1300111,1	Vicious Deruteu						
Input Voltage			380/400/415V	ac+N+W(3phase	+PE)					
Input Voltage Range				3-498Vac	•					
Input Frequency Range			50/6	0Hz±10%						
Soft-Start			5-600 Sec	onds,Adjustable						
Input PF				nal Input Wave						
THDI	HDI <5%(With Optional Accessories									
Output Specification										
Output Voltage		Line Volta	age:380×(1±1%)A0		e:220×(1±1%)AC					
Output PF	2001/	as 111/(Ctatis Load):200	N/25120//E0 00/ Cu	0.9	201/25120//100.0	M/Cuddon Change	.\			
Voltage Dynamic Response	Voltage Regulation 380Vac±1%(Static Load);380Vac±2%(50-0%Sudden Change);380Vac±3%(100-0%Sudden Change) Dynamic Response ±5%,(0~100%Sudden Change)									
Voltage Dynamic Response				<5ms	c)					
Synchronization Range				±5%						
Output Freq			±0.029	6(BAT Mode)						
THD		<1%	(Linear Full Load)		r Full Load)					
3 Phase Unbalanced				e 100%Unbalanc						
Output Volt.Unbalanced			%(Balanced Load							
Input/Output Phase Swift		≤	1°(Balanced Load		ed Load)					
Frequency Tracking Range	45-65Hz									
Output Waveform	Pure Sine Wave With output PF0.9,105%:Long time Operation,110%:1 Hour,125%:10 Mins,150%:1 Min									
Overload Crost Patio		vvicii output PF0.9,105	70.LONG TIME OPER		u1,1∠5%:1U Min	5,13U%:1 IVIIN				
Crest Ratio Short-Circuit	3:1 Circuit Auto-Protection,Bypass Switch Tripping									
Output Abnormal		CII		teLocked Protec						
Bypass Specification										
Static BypassTransfer Time				0ms						
Static Bypass Range		380/400/415Va	c(±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	ass Available									
Battery Specification Cooled Load Asid Maintenance Free										
Type Std.Model Rated Volts/Units	Sealed Lead Acid Maintenance Free 12V,384Vdc/32 Units									
Float Charge Voltage	12V,384VdC/32 UnitS 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)		355	85		855	855	955			
Size mm(H)		900	190		1900	1900	1900			
Size mm(W)6 pulse		245	164		2265					
Size mm(W)12 pulse		770	220		2265	2615	2865			
Net Weight Kg(6pulse)		075	158		2105					
Net Weight Kg(12 pulse)	1	685	209	ĐU .	2500	2850	3130			