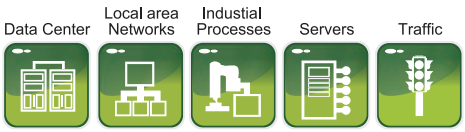
GP9312C GP9332C Series
Low Frequency Online UPS

10-200KVA(3 Ph in/1Ph out & 3 Ph in/3Ph out)



Product snapshot:

- Model: GP9312C 10-100KVA (3Ph/1Ph)
- Model: GP9332C 10-200KVA (3Ph/3Ph)
- Nominal Input Voltage: 380/400/415VAC
- Output Power Factor: 0.8
- Parallel: Maximum 8PCS UPS
- Battery can be shared in parallel mode

High intelligence and reliable power supply

GP9312C/GP9332C provides maximum protection for vital mission-critical networks, security applications (electro-medical) and industrial applications thanks to its outstanding mechanical and electrical design.
The load is powered continuously by the inverter with a filtered, stabilised and regulated sinewave supply. The input and output EMI filters considerably increase the immunity of the load to mains disturbances and surges.
The GP9312C/GP9332C uses on-line double conversion technology (VFI) with and isolation transformer on the inverter output.
The GP9312C/GP9332C is supplied with Watch & Save 3000 software as standard and can be remotely monitored using the Power NetGuard system from anywhere in the world. Additional battery extension packs allow the standard battery runtime to be extended up to several hours.

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Application

- Servers
- Local Area Network (LAN)
- Data centers
- Telecommunictions
- Electro-medical equipment.

MINIMUM IMPACT ON SUPPLIES EASY SOURSE

- Input current distortion <4% for the GP9312C/GP9332C with filter with sinusoidal absorption to remove the risk of resonance with other input supply users or phase shift capacitor sets. The absorbed current distortion is independent of input supply parameters such as impedance. This enable
- GP9312C/GP9332C to deliver maximum performance levels regardless of the installation environment. With these input features GP9312C/GP9332C can achieve significant savings in terms of sizing and power supply sources-isolation transformers and generators over less sophisticated power systems.

MAXIMUM BATTERY CARE

- Battery deep discharge protection;
- Temperature compensating charger;
- Built-in automatic and manual battery test feature.

SIMPLE TO INSTALL

- Capability to install the UPS into any distribution system (neutral not required on rectifier input);
- Capability to separate the rectifier/bypass power networks and to power these from two separate sources, without Galvanic isolation (Necessary on UPS without an output transformer).

HIGH RELIABILITY

- Extremely high short-circuit current to ensure compatibility with the most difficult transformer applications (lighting, drives and industrial processes) and an isolation transformer on the inverter output;
- Full microprocessor control with no-break static and manual bypasses;
- IGBT technology.

OTHER CHARACTERISTICS

- 0.8 power factor make GP9312C/GP9332C suitable for powering ICT and Industrial loads;
- High level diagnostics: event lo with 128 messages, states, measurements and alarms – available from the built-in LCD in several languages;
- BACK FEED protection: to avoid energy feeding back into the mains supply should a fault occur.

MAXIMUM RELIABILITY AND AVILABILITY

Connect up to 8 units in parallel or N+1 redundancy, even of different power ratings.The UPS continue to work in parallel even if one of the interconnecting communication cables is disconnected (CLOOSED LOOP).

LOW CONSUMPTION LEVELS

GP9312C/GP9332C can achieve efficiencies >98% thanks to selectable Economy Mode which can be used in stable electrical environments to provide power supply continuity should the mains fail.

ADVANCE COMMUNICATION

- Compatible with TeleNetGuard for remote maintenance;
- Advanced, multi-platform communication for all operation systems and network environments: Watch & Save 3000 monitoring and shut-down software included, with SNMP agent, for Windows 2008, Vista,2003, XP; Mac OS X, Linux, Novell and most popular Unix operating systems;
- The UPS is supplied with a cable for direct connection to the PC(Plug and Play);
- RS232 double Serial port;
- Installation slot for an Emergency Power Off (EPO) interface to allow the UPS to be switched off remotely in an emergency;
- Generator interface: enables desynchronisation of the UPS output from a generator supply which may be subject to phase and frequency variations. The interface also enables more economic use of the battery charge..

GP9332C 10-40KVA can batteries inside

Inner structure

GP9312C series Technical Specifications

Model	GP9312C 10-100KVA							
Power(kVA)	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA
Capacity	8KW	12KW	16KW	24KW	32KW	48KW	64KW	80KW
Input								
Rated voltage	400 Vac three-phase							
Voltage range	± 20%							
Frequency range	45÷65Hz							
Power factor	>0.92 with harmonic filter							
Current harmonic distortion	<5% with harmonic filter							
Soft Start	0-100% in10''							
Bypass Input								
Rated voltage	230Vac single-phase							
Permitted voltage range	±15%(selectable from ±10% to ± 25% from front panel)							
Rated frequency	50/60Hz							
Permitted frequency range	± 2%(selectable from ±1% to ± 5% from front panel)							
Standard features	BackFeed portection; split bypass line							
Batteries								
Type	Maintenance-free lead-acid VRLA AGM / GEL; NICd							
Maximum recharge current(A)	0.2 X C10							
AC ripple voltage	<1%							
Inverter output								
Rated power(kVA)	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA
Active power(kW)	8KW	12KW	16KW	24KW	32KW	48KW	64KW	80KW
Number of phases	1							
Rated voltage(V)	230Vac single-phase							
Regulation of the output voltage	220÷244Vac phase/neutral(from control panel)							
Crest factor(Ipeak/Irms)	3:1							
Static stability	±1%							
Dynamic stability	±5%							
Frequency	50/60Hz configurable							
Overload	110% 125% 150% of the rated current for 5h/10'/1'							
Frequency stability	±0.05% on mains failure							
System	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA
Remote signaling	Volt free contacts							
Remote controls	EPO and Bypass							
Communication	RS232 + romote contacts							
Operation temperature	0℃ / + 40℃							
Relative humidity	<95% non condensing							
Colour	Light grey (RAL 7035)							
Noise	54dBA at 1m		60dBA at 1m		65dBA at 1m			
Protection degree	IP20							
Efficiency Smart Mode	up to 98%							
Compliance	Safety:EN 62040-1-1(Directive 2006/95/EC); EMC:6200-2(Directive 2004/108/EC)							
Weight（KG）N.W	200	220	230	290	340	440	520	770
Dimensions：(W x D x H)mm	555X720X1200					800X740X1400		1070X740X1400
Internal batteries	Yes	Yes	Yes	No	No	No	No	No

STANDARD: Conform to GB/IEC regulation： EMC:GB7260.2/IEC62040-2 GB/17626.2～5/IEC61000-4-2～5 SAFETY:GB4943

Note: Product specifications are subject to change without further notice.

GP9332C series Technical Specifications

Model	GP9332C 10-200KVA										
Power(kVA)	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA
Capacity	8KW	12KW	16KW	24KW	32KW	48KW	64KW	80KW	96KW	128KW	160KW
Input											
Rated voltage	400 Vac three-phase										
Voltage range	± 20%										
Frequency range	45÷65Hz										
Power factor	>0.9 with harmonic filter										
Current harmonic distortion	<5% with harmonic filter										
Soft Start	0-100% in10''										
Bypass Input											
Rated voltage	400Vac three-phase										
Permitted voltage range	±15%(selectable from ±10% to ± 25% from front panel)										
Rated frequency	50/60Hz										
Permitted frequency range	± 2%(selectable from ±1% to ± 5% from front panel)										
Standard features	BackFeed portection; split bypass line										
Batteries											
Type	Maintenance-free lead-acid VRLA AGM / GEL; NICd										
Maximum recharge current(A)	0.2 X C10										
AC ripple voltage	<1%										
Inverter output											
Rated power(kVA)	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA
Active power(kW)	8KW	12KW	16KW	24KW	32KW	48KW	64KW	80KW	96KW	128KW	160KW
Number of phases	3+N										
Rated voltage(V)	400Vac										
Regulation of the output voltage	348÷424Vac phase/neutral(from control panel)										
Crest factor(Ipeak/Irms)	3:1										
Static stability	±1%										
Dynamic stability	±5%										
Frequency	50/60Hz configurable										
Overload	110% 125% 150% of the rated current for 5h/10'/1'										
Frequency stability	±0.05% on mains failure; ± 2%(selectable from ± 1% to ± 5%) with mains supply present										
System	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA
Remote signaling	Volt free contacts										
Remote controls	EPO and Bypass										
Communication	RS232 + romote contacts										
Operation temperature	0℃ / + 40℃										
Relative humidity	<95% non condensing										
Colour	Light grey (RAL 7035)										
Noise	54~62dBA at 1m							54~65dBA at 1m			
Protection degree	IP20										
Efficiency Smart Mode	up to 98%										
Compliance	Safety:EN 62040-1-1(Directive 2006/95/EC); EMC:6200-2(Directive 2004/108/EC)										
Weight（KG）N.W	200	220	230	290	340	440	520	770	855	1300	1350
Dimensions：(W x D x H)mm	555X720X1200					800X740X1400		1070X740X1400		1420X7401805	
Internal batteries	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No

STANDARD: Conform to GB/IEC regulation： EMC:GB7260.2/IEC62040-2 GB/17626.2～5/IEC61000-4-2～5 SAFETY:GB4943

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