

GP-M3300 Modular Series UPS



Online Transformerless UPS Series

Power range: 400~1200kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output

Module: 100kVA



Features



Modular Design

- All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated
- Power module, Bypass module, Monitoring module, ECU control module, all these modules are hot-swappable



High Reliability

- Wide input voltage range, line voltage range is 138-485V, UPS will derate to 40% when input voltage is below 323V
- UPS adopts multiple digital bus and redundancy parallel control system, making sure the whole system keep online if any single circuit fail
- The UPS will keep on single or parallel working, if any module fail
- Thickened conformal coating, applicable for harsh environment such as high heat, high humidity, dust



Green and Power Saving

- High input power factor, it is up to 0.99
- 3-level topology design, online efficiency up to 97%
- THDi<3% (100% linear load)
- The UPS will work in sleeping mode when the load is very small (Settable)



HECO Mode

- High performance mode, system efficiency up to 99%
- Inverter is in working state and has reactive power compensation and active power filter functions, improving input power factor and quality
- Automatic adjustment of inverter control mode to power the load when bypass is abnormal



VRLA & Lithium Battery Supportable

- Compatible with VRLA or lithium battery



Parallel Redundancy Function

- Support parallel expanded operation: 6 units max
- Support sharing batteries for the UPS in parallel



Strong Load Capability*

- Output power factor is 1.0, UPS can supply power to 100% unbalanced load
- High adaptability for load, it can connect full inductive load or capacitive load, more than 0.7 PF without derating



Intelligent Management

- With 7 inches (Standard) and 10 inches (Optional) colorful touch LCD screen
- Support recording and exporting history logs and fault logs
- Support SNMP, RS232, RS485, BMS, Dry contact interface
- Support upgrading FW&SW on line (In bypass mode)
- EPO & REPO function
- Support wave recording when fault occurs
- Support key components lifecycle management



Compatible with Generator

- Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator



LBS Function

- LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system

*This series of products are not compatible with energy feedback loads, including but not limited to CT machines in the medical field, cutting machines in the semiconductor industry, and all types of elevators as well as other motor-driven equipment that incorporate energy feedback inverters at the front end.

Technical Specifications

MODEL		GP-M10033-400K	GP-M10033-500K	GP-M10033-600K	GP-M10033-800K	GP-M10033-1000K	GP-M10033-1200K
Capacity (VA/W)	UPS Cabinet	400KVA	500KVA	600KVA	800KVA	1000KVA	1200KVA
	Module	100KVA					
	Max. Number	4	5	6	8	10	12
Max. Parallel Number		6			4		
INPUT							
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)					
Operating Voltage Range (Vac)		138~324 for 40% Load; 323~485 for 100% Load;					
Power Factor		≥0.99					
Harmonic Distortion (THDi)		≤3% (100% Linear load)					
Bypass Voltage Range (Vac)		Max. voltage: 220: +25% (Optional+10%, +15%, +20%) 230: +20% (Optional+10%, +15%) 240: +15% (Optional+10%) Min. voltage: -45% (Optional -10%, -15% -20%, -30%)					
Bypass Frequency Range (Hz)		50/60±10%					
OUTPUT							
Nominal Voltage (Vac)		380/400/415, (3Ph+N+PE)					
Voltage Regulation		±1%					
Output Frequency (Hz)		Line mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. mode: 50/60±0.1%					
Crest Factor		3:1					
Harmonic Distortion (THDv)		≤1% with linear load; ≤3% with nonlinear load					
Overload	Inverter Mode	105%~110% overload for 60 min; 110%~125% overload for 10 min; 125%~150% overload for 1 min					
	Bypass Mode	125% overload for long term; >1000% overload for 100 ms					
EFFICIENCY*							
AC Mode		Up to 97%					
ECO Mode		Up to 99%					
HECO Mode		Up to 99%					
BATTERY		VRLA/Li					
Battery Type		VRLA/Li-ion					
Battery Voltage (Vdc)		360~600					
Charging Current (Max.)(A)		100					
MANAGEMENT							
LCD Display		Input,Output, Battery, Command, Setting, Maintenance					
Alarm		Line Failure, Battery Low, Overload, System Fault					
Communication Ports		RS232, RS485x2 (User commnunication), BAT_T (NTC&RS485), Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)					
Dry Contact Ports		"Input (12Vdc): EPO (NO/NC), Battery breaker detection port x3, external maintenance breaker detection port, external output breaker detection port, external bypass breaker detection port, battery grounding detection port, SPD detection port, generator connection detection port and optional port x4. Output: Backfeed (Relay NO/NC), battery breaker tripx3 (24Vdc), optional port (relay)x6"					
SYSTEM FEATURES							
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately					
Self-diagnostics		Upon Power On and Software Control					
Generator Input		Support					
EPO		Shut down UPS immediately					
ENVIRONMENTAL							
Operating Temperature (°C)		0~40					
Storage Temperature (°C)		-25~55					
Humidity Range		0~95% (Non condensing)					
Altitude (m)		<1000, derating required when >1000					
Noise Level (dB)		<73		<74		<75	
PHYSICAL							
Dimension WxDxH (mm)	UPS Cabinet(S)	800×1000×2000			800×1000×2000	1400×1000×2000	
	UPS Cabinet(F)				1400×1000×2000	1800×1000×2000	
	Power Module	440×755×130 (3U)					
Weight (kg)	UPS Cabinet(S)	305	330	350	405	690	760
	UPS Cabinet(F)	350	380	410	780	850	920
	Power Module	52.5					
STANDARDS							
Safety		IEC/EN 62040-1, IEC/EN 62477-1					
EMC		IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)					

*This efficiency is a typical value measured under standard test conditions and may vary slightly depending on the actual operating environment and conditions.

S: Without or only with one maintenance bypass breaker

F: With mains, bypass, maintenance bypass and output breakers

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design