

QPG Modular UPS 125kVA - 480kVA



VRLA



Energy Monitoring



Modular 125kW



Efficiency >96%



Scalable and Energy Efficient Batteries

Power on demand

Reliable Energy Storage & Fast Recovery. Engineered for dependable backup performance, the battery system delivers immediate power during outages while supporting rapid recharge and long-term reliability. Flexible configuration options allow the system to adapt to a wide range of application requirements.



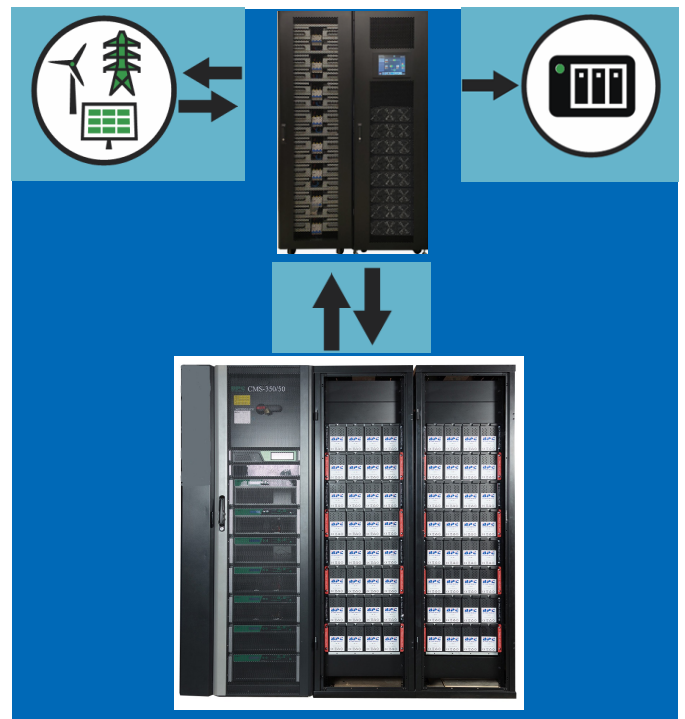
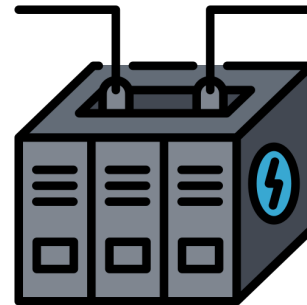
Smart System & Connectivity

The UPS system is designed with intelligent controls and flexible connectivity options to support modern infrastructure. Built-in communication interfaces enable seamless integration with monitoring platforms, while optional add-ons enhance visibility, control, and system functionality. This ensures reliable operation, simplified management, and compatibility with a wide range of applications.

- Network Integration (SNMP)
- Industrial Communication (RS232 / RS485)
- Flexible Interface Options (AS400 / Dry Contacts)

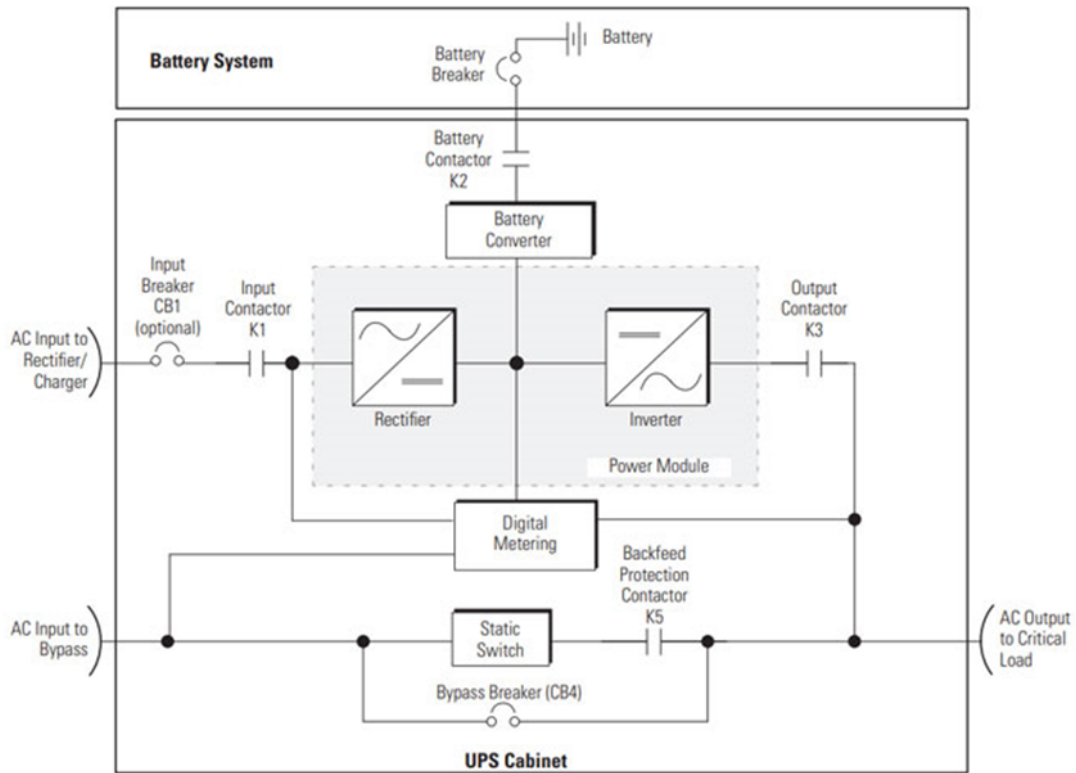
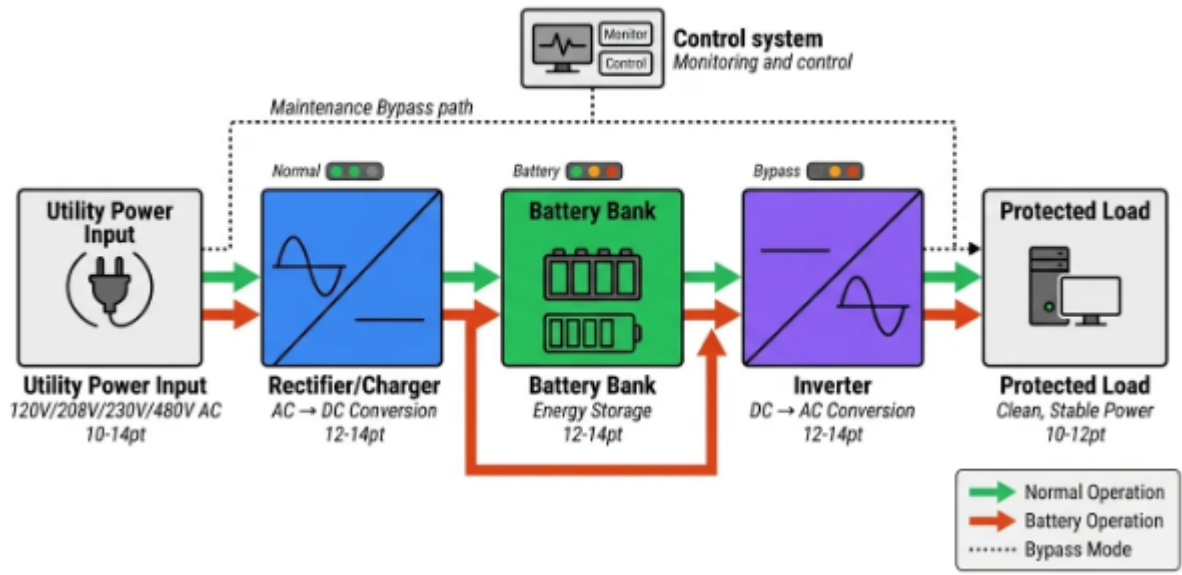
Scalable and Efficient

The battery system is designed for scalability and efficiency, featuring a flexible high-voltage architecture that adapts to varying runtime requirements. With configurable battery strings and high charging capacity, it ensures fast recharge, optimized performance, and reliable backup power while maintaining long-term battery health



UPS system architecture

UPS Power Flow Diagram



Cabinet Rate power		480kVA/480kW
Power Module Rate Power		60kVA/60kW
Main Input	Input	3P+N+PE
	Rate Voltage	480/440VAC (L-L)
	Input PF	>0.99
	Current distortion	THDi<5% (25% Linear load) THDi<2.5% (100% Linear load)
	Voltage range	384 ~528VAC(L-L)full load 288~384VAC (L-L) power derate from 100% to 50%
	Freq range	40 ~ 70Hz
Battery	Rate Voltage	±240VDC (32-44 batteries settable)
	Charging capacity	20%*Pout
	Charging accuracy	±1%
Bypass	Rate Voltage	480/440VAC (L-L)
	Voltage range	Range: -40%- +25% , Settable, default -20% ~ +15%;
	Freq range	Settable, ±1Hz, ±3Hz, ±5Hz)
	Overload	125%, long time operation 125% < load < 130%, 10 mins 130% < load < 150%, 1 min > 150%, 300ms

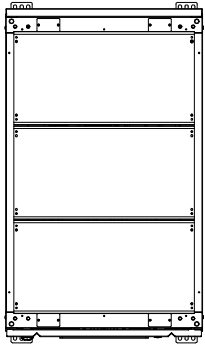


Inverter	Rate Voltage	480/440VAC (L-L)
	Rate frequency	50/60Hz
	Output PF	1
	Voltage accuracy	±1.0%
	Load response	<5% (20% - 80% -20% step load)
	Recovery time	< 20ms (0% - 100% -0% step load)
	Output THDu	<1.5% (linear load) , <3% (non-linear load according to IEC 62040-3)
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms
	Frequency accuracy	0.1%
	Synchronize window	Settable, ±0.5Hz-±5Hz, default ±3Hz
	Slew rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S
	Crest factor	3:1
Phase accuracy	120°±0.5°	

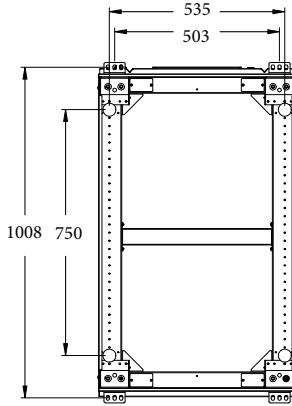


System	Efficiency-normal mode	up to 96%
	Efficiency-battery mode	up to 96%
	Display	LED + 7 inch touch LCD
	Certification- Safety	IEC62040-1, IEC60950-1
	Certification- EMS	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)
	IP degree	IP20
	Noise (1 meter)	72dB @ 100% load, 69dB @ 45% load
	Operation temperature	0-40°C
	Humidity	0-95%(non condensing)
	Altitude	<1000m, 1000 ~ 2000m, power derates 1% every 100m
	Configuration	USB, RS232, RS485, Dry contact, Cold start, Air filter
	Option	SNMP card,AS400 card,Parallel kit,LBS, SPD
	Manual Bypass Switch	None
	Input Switch	None
	Bypass Switch	None
Output Switch	None	
Dimension	cabinet (W*D*H)in.	25*40*80
	module(W*D*H)in	18*26*7
Weight (lbs)		100 lbs. (power module)

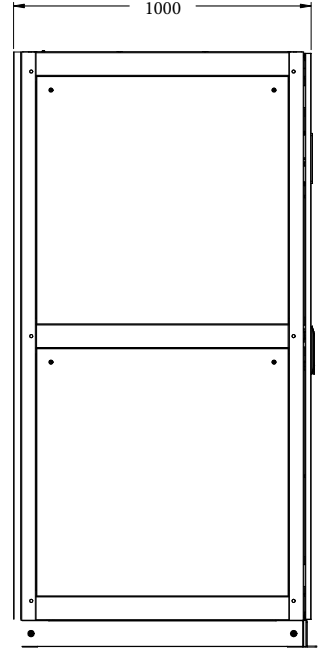
UPS - AC480/60H
CABINET SCHEMATICS



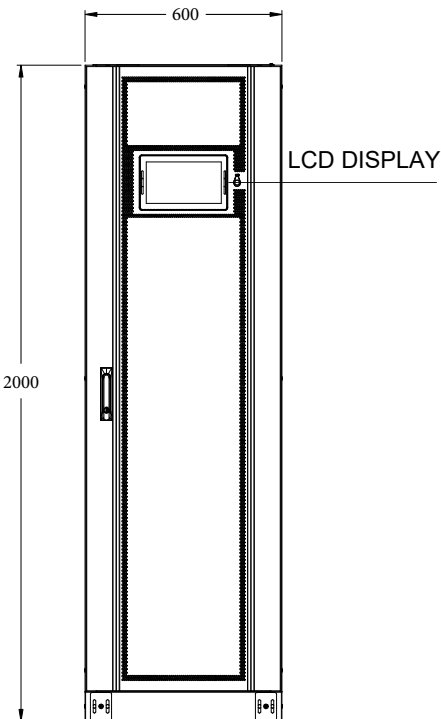
TOP VIEW



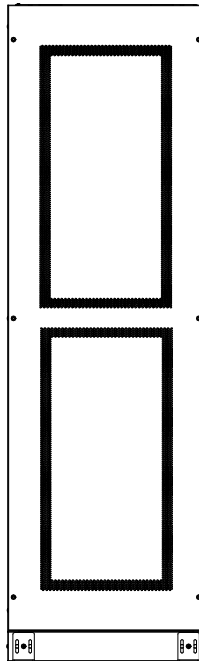
BOTTOM VIEW



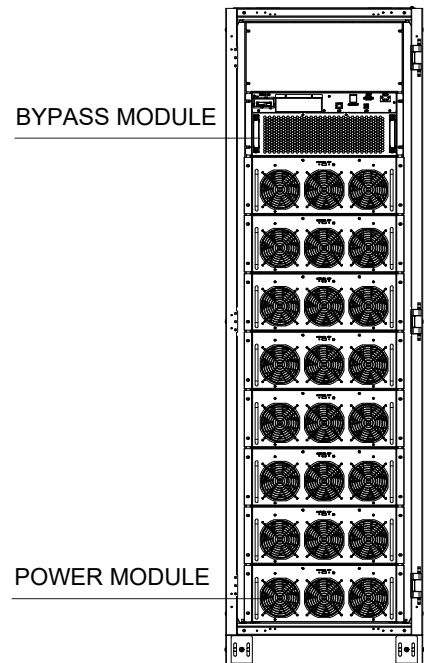
SIDE
VIEW



FRONT VIEW



BACK VIEW



FRONT VIEW
DOOR OPENED