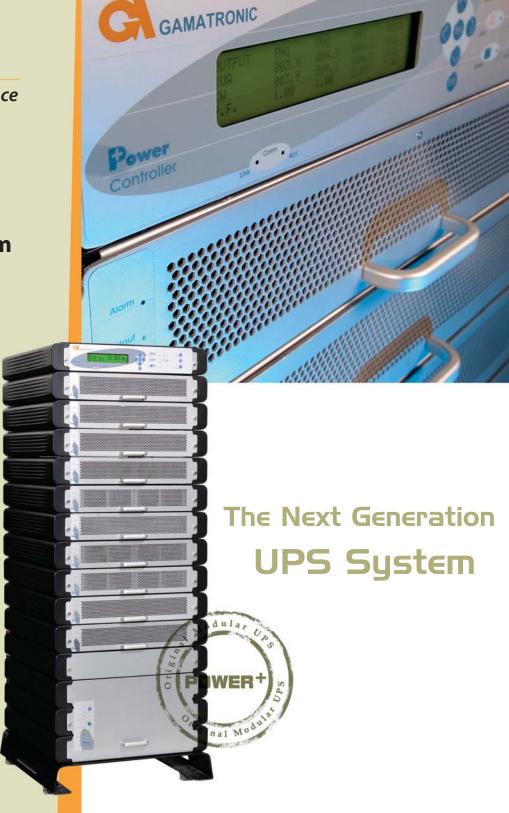


POWER+

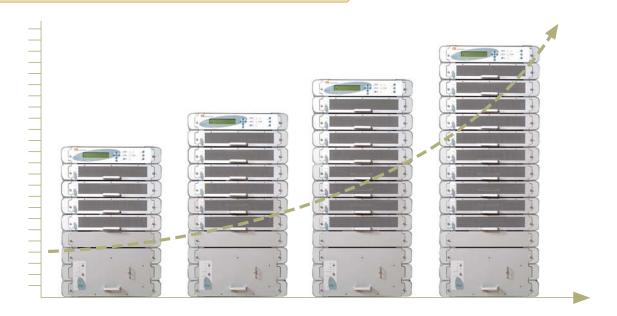
Modular UPS System 10kVA to 100kVA

- True On-line
- Parallel
- Redundant
- Double-conversion
- Modular
- Green and clean power
- High efficiency



Power+ is a state-of-the-art modular UPS system based on the *true on-line battery* topology. The Power+'s modular design makes scalability simple; its high power density provides the benefits of a small footprint and low heat dissipation. The Power+'s rich management and communication capabilities include remote monitoring and control over the Internet or via cellphone. Its hybrid static switch ensures high reliability and compliance with IEC standards.





The UPS That Grows With Your Business

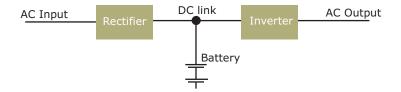
Power+ is a true modular, user-upgradeable system. As load increases you can insert up to a total of ten 10 kVA hot-swap plug-in modules, each weighing only 9 kg. The Power+ can be configured in parallel for N+1 or N+2 redundancy.

True On-Line Battery

The Power+ inverter complies with the IEC-62040-3 standard by its ability to take its input power from either the ac input (via the rectifier) or the battery, and supply power to the load. The battery is galvanically connected between the rectifier output and the inverter input on a common DC link (see diagram on the right).

Double Conversion True On-Line Battery (VFI)

According to IEC 62040-3



Parallel POWER⁺ Systems

Connecting two or more POWER+ units in a parallel configuration provides increased reliability and/or greater output power capacity. POWER+ units equipped with the optional parallel kit share the load equally.

PSM-POWER+ main screen



Applications

- Local Area Networks
- Servers
- Data centers
- Industrial PLCs
- Industrial Processes
- Cash registers
- ► Emergency Devices (lights/alarms)
- Telecom facilities
- E-business

Topology				True Online Battery, Double Conversion VFI						
Construction				Modular parallel hot-plugged modules, continuous operation						
INPUT							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Voltage			3 X 380/400/415V+N+PE (5 wires system)							
Voltage Range				-27%÷ +20%						
Current				15A per phase for a single module, no inrush current at startup						
				47-63Hz						
Frequency Power Factor			47-03FIZ							
THDI			< 5%							
OUTPUT										
Rated Power				10kVA/8kW to 100kVA/80kW						
Frequency Tracking Range				± 0.5,±1,±2,±3,±4Hz (selectable)						
Frequency (in free-running mode)				50/60Hz ±0.1%						
Slew Rate				50/60⊓2±0.1% 1Hz/sec						
Voltage				3 X 380/400/415V+N+PE (selectable)						
Static Regulation				3 X 380/400/415V+N+PE (selectable) ±1%						
Regulation for Unbalanced Load				±1% for 100% unbalanced load						
				± 1% for 100% unbalanced load ± 2%, <1ms recovery time						
Dynamic Response to 100% Load Step Overload				± 2%, < 1 ms recovery time 110% for 10 min.;125% for 60 sec.;1000% for 1 cycle						
Overload Waveform				Sinusoidal						
THD				Less than 2% for linear load						
			6:1							
Load CF (max)				0:1 Up to 96%						
AC-AC Efficiency (nominal)				Up to 98%						
DC-AC Efficiency (nominal)					Up to 98%					
BATTERIES				±432V						
DC-Link Voltage Number of Batteries			± 432V 64 x 12V							
			04 X 12V							
GENERAL Maximum Dissipation (De. 00040)				222W (1126 PTII/k) for a single readule						
Maximum Power Dissipation (Po=8KW)			333W (1136 BTU/h) for a single module -10 ^o to +40 ^o (operating); -20 ^o to +60 ^o (storage)							
Ambient Temperature										
Relative Humidity				95% max non-condensing						
Altitude				1500m w/o derating						
Enclosure				IP20						
Cooling Forced - multi-fan with speed control										
STANDARDS					_	NEGGGG) Cl .	IFC (22)		
EMC				EN50091-2 Class A ; IEC 62040-2						
Safety				EN50091-1 ; IEC 62040-1-1						
Design				EN50091-3; IEC 62040-3						
Low Magnetic Field Rad	EMF as per ICNIRP									
DIMENSIONS			ı			/=	400	(4.0.II)		
10kVA Module (H x W x D)				88mm (2U) x 483mm (19") x 455mm						
Weight				9kg						
		and base								
Model	10kVA	20kVA	30kVA	40kVA	50kVA	60kVA	70kVA	80kVA	90kVA	100kVA
Dimensions (cm) H	69	79	88	97	107	116	125	135	144	154
W	W 60									
D					6					Π.
Weight (kg)	98	113	128	143	158	173	188	203	218	233
ACOUSTIC NOISE (@										
Noise (dBA) half load	48	52	53	54	55	55.8	56.4	57	57.5	58
Noise (dBA) full load	51	54	55	57	58	58.8	59.4	60	60.5	61

 $^{{}^*\!\!\}operatorname{All}\!\!\operatorname{specifications}\!\operatorname{are}\!\operatorname{subject}\!\operatorname{to}\!\operatorname{change}\!\operatorname{without}\!\operatorname{prior}\!\operatorname{notice}$

POWER+ VERSIONS



POWER⁺ 19"

True On-line double-conversion modular UPS for a 19" rack, 10kVA-20kVA

A 19" variant of the Power+ UPS, which can be inserted in any standard 19" rack, for a lower cost configuration of 10kVA and 20kVA UPSs. It is available in two configurations, with one or two Power+ modules.

POWER⁺ Free Style

True On-line doubleconversion modular UPS for a 19" rack, 50kVA-100kVA

This is a 19" variant of the Power+ UPS, which can be inserted in any standard 19" rack, available in two configurations: 50kVA (5 Power+ modules), with a height of 22U and 100kVA (10 Power+ modules), with a height of 32U.





POWER⁺ Battery Cabinets





Our new standard battery cabinet combines safety and flexibility with easy battery access. The cabinet can be ordered assembled, or in kit format to reduce shipping costs.

Battery Capacity	No. of Cabinets for POWER+*	Dimensions (DxWxH) mm		
		of each cabinet		
64x17/20Ah	2 Pcs (each cabinet includes 32 batteries)	243x740x1300		
64x24/26/38/40Ah	2 Pcs (each cabinet includes 32 batteries)	300x970x1700		
64x65/90Ah	4 Pcs (each cabinet includes 16 batteries)	420x800x1100		

*Cabinets can be installed side by side or back to back



Our Power, Your Confidence

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