

Gamatronic POWER+ Modular UPS Systems 10kVA to 500kVA

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.

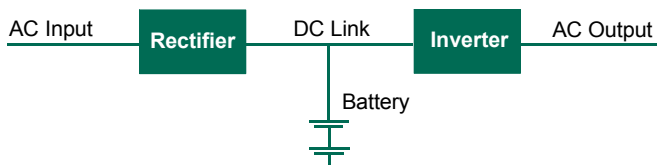
The UPS That Grows With Your Business

POWER+ is a true modular, user-upgradable system. As load increases you can insert up to a total of ten 10kVA hot-swap plug-in modules, each weighing only 9kg. 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:

Double Conversion True On-Line Battery (VFI) According to IEC 62040-3



Parallel POWER+ Systems

Connecting to 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.

POWER+ 19" - 10kVA - 20kVA

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 a 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 19" - 10kVA - 100kVA

True on-line double-conversion modular UPS for a 19" rack, 10kVA - 100kVA. This is a 19" cabinet 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. These can also be paralleled up to 500kVA.

POWER+ SA

Stand-alone true on-line double-conversion UPS. Stand-alone versions of the POWER+ UPS, in a unique light and compact design. In versions of 10, 20, 30 and 40kVA.

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.

Specifications												
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											
Frequency	47-63 Hz											
Power Factor	1											
THDI	<5%											
OUTPUT												
Rated Power	10kVA / 8kW to 100kVA / 80kW											
Frequency Tracking Range	± 0.5, ± 1, ± 2, ± 3, ± 4 Hz (selectable)											
Frequency (in free-running-mode)	50/60Hz ± 0.1%											
Slew Rate	1Hz/sec											
Voltage	3 x 380/400/415V+N+PE (selectable)											
Static Regulation	± 1%											
Regulation for Unbalanced Load	± 1% for 100% unbalanced load											
Dynamic Response to 100% Load Step	± 2%, <1 ms recovery time											
Overload	110% for 10 min.; 125% for 60 sec.; 1000% for 1 cycle											
Waveform	Sinusoidal											
THD	Less than 2% for linear load											
Load CF (max)	6:1											
AC-AC Efficiency (nominal)	Up to 96%											
DC-AC Efficiency (nominal)	Up to 98%											
BATTERIES												
DC-Link Voltage	± 432V											
Number of Batteries	64 x 12V											
GENERAL												
Maximum Power Dissipation (Po=8KW)	333W (1136 BTU/h) for single module											
Ambient Temperature	-10°C to +40°C (operating); -20°C to +60°C (storage)											
Relative Humidity	95% max non-condensing											
Altitude	1500m w/o derating											
Enclosure	IP20											
Cooling	Forced - multi-fan with speed control											
STANDARDS												
EMC	EN50091-2 Class A ; IEC 62040-2 Class A											
Safety	EN50091-1 ; IEC 62040-1-1											
Design	EN50091-3 ; IEC 62040-3											
Low Magnetic Field Radiation	EMF as per ICNIRP											
DIMENSIONS												
10kVA Module (H x W x D)	88mm (2U) x 483mm (19") x 455mm											
Weight	9kg											
POWER+ System (incl. STSW and base modules)												
Model	10kVA 20kVA 30kVA 40kVA 50kVA 60kVA 70kVA 80kVA 90kVA 100kVA											
Dimensions (cm)	H	71	80	90	99	108	118	127	136	146	155	
	W	60										
	D	69										
Weight (kg)	84	99	114	129	158	173	188	203	218	233		
ACOUSTIC NOISE (@ 1.5m from front of unit)												
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		

*All specifications are subject to change without prior notice