

THE NEXT GENERATION IN MODULAR UPS

GAMATRONIC POWER+

The Gamatronic Power+ three-phase UPS system employs a single –unit form factor that conserves precious data center floor space, and its lightweight, user-friendly, 10kVA modules provide simple, reliable low-cost expansion to meet your growing power needs. Because the Power+ is modular and scalable, you conserve capital—only investing in capacity when you need it. The Power+ operates at super-high 94% efficiency, which means less heat and lower cooling costs, too.

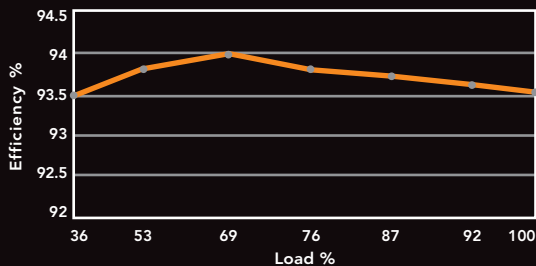
POWER+ RM100 SERIES

THREE-PHASE 10kVA - 90kVA N+1 UPS

Modular • Scalable • Hot-Plug,Hot-Swap • N+1 Redundancy • Affordable

- Double-conversion power provides completely clean, consistent AC output to the data center power bus.
- True online battery is galvanically connected to the rectifier and inverter on a common DC link for increased reliability.
- Hot-plug, hot-swap system enables power modules and controller to be added or swapped without interruption of output power and without transferring to bypass.
- Scalability from 10kVA to 90kVA N+1 enables UPS to grow in 10kVA steps with your expanding power protection needs.
- Allows cost-effective N+1 or N+2 redundancy, ensuring that the load will continue to be supported even if a module fails.
- Hybrid static switch ensures fastest, safest transfer to backup with long term reliability.
- Lightweight power modules are only 2U and 22 lbs. each.
- Highest AC – AC efficiency rating of 94% results in lower energy costs and reduced heat.
- System controller provides advanced management and control functions including Internet, TCP/IP, and SNMP communications standard. System can operate with controller damaged or removed.
- UPS and maintenance bypass switch mounted in 19" x 42U rack enclosure for easy installation .
Matching battery cabinet available.

POWER+ AC to AC Efficiency



POWER+ RM100 SPECIFICATIONS										
Model RM100	10kVA	20kVA	30kVA	40kV	50kV	60kV	70kV	80kVA	90kVA	90kVA
Capacity – Three-Phase (kVA / kW)	10/8	20/16	30/24	40/32	50/40	60/48	70/56	80/64	90/72	90/72
Capacity – Single-Phase (kVA / kW)	7.5/6	15/12	21/18	30/24	37/30	45/36	52/42	60/48	67/54	67/54
Topology	On-line Double Conversion Modular Redundant with Hybrid Central Static Switch									
Input										
Voltage	3 x 208V Three-Phase, L1, L2, L3, N 120/208 or 120/240 Single-Phase, L1, L2, N									
Voltage Range	-25% to +15%									
Current	29.6 Amps per 10kVA Module - No inrush current at Startup									
Frequency (Hz)	47 - 63									
Power Walk In	> 60 seconds									
Current Distortion (THDI)	5% at full load									
Input Power Factor	0.99									
Output										
Voltage	3 x 120 / 208V Three-Phase, L1, L2, L3, N									
Current	27.8 Amps Per 10kVA Module									
Frequency Tracking Range	60Hz +/-2Hz									
Static Regulation	+/-1%									
Regulation for Unbalanced Load	+/-1% for 100% Unbalanced load									
Dynamic Response to 100% Step Load	+/-2%									
Overload	110% for 10 min; 125% for 60 sec; 1000% for 1 cycle									
THD	Less than 2% for linear load									
Load Crest Factor (Max)	4:1									
Efficiency (Nominal)	AC/AC 94% on-line, DC/AC 97%									
Static Switch										
Type	Hybrid Static Switch with Auto Wrap-around Contactor									
Control Connections	EPO Connection (powered NC) and Load on Bypass (dry contacts NC)									
General										
Ambient Temperature	14°F to 104°F (operating), -4 to 140°F (storage)									
10kVA/8kW Module Weight (lbs.)	22									
UPS Dimensions (HxWxD)	80" x 24" x 39.4" (19" x 42U rack)									
UPS System Weight (lbs)	424	446	469	491	514	536	559	581	604	626
UPS Shipping Weight	Add 200 lbs for pallet and crating									
Acoustic Noise (Full Load) @ 1.5M (dB)	48	52	53	54	55	55.8	56.4	57	57.5	58
Maximum Heat Dissipation	1740 btu/hr per 10kVA power module at full load									
Power+ Controller										
Display	4x40 Character LCD with Backlight									
Input Channels	4 Digital, 8 Analog									
Output Contacts	4 Dry Contacts									
System Operation without Controller	Continuous without disruption									
On Screen Parameters	Load Bar Graph, UPS Module Status, Static Switch Status, Battery, Temperature Sensor (opt)									
Power Meter	Input and Output kW, kVA, and PF									
Alarms	Module Failure, AC Alarm, DC Alarm, On Bypass, Battery Test Fail, Overload, Over/Under									
Log (events memory)	255 Events									
Communications	SNMP / Web Interface, TCP/IP Standard									
Standards										
EMC Emission	IEC62040-2; FCC part 15/8									
Safety	UL 1778; IEC62040-1-1									
Battery/Charger										
DC Link Voltage	384V (+192, -192)									
Max Charging Current at full load	4.5	9	13.5	18	22.5	27	31.5	36	40.5	45
Matching Battery Cabinet										
Batteries	Up to 2 x 32 x 40AH per cabinet									
Matching Cabinet Dimensions (HxWxD)	80" x 24" x 39.4"									
Matching Cabinet Weight (lbs)	176 lbs w/o batteries, 1010 lbs with 1 x 32 x 40AH, 1844 lbs with 2 x 32 x 40AH									
Runtime	Load									
# of battery strings	10kVA	20kVA	30kVA	40kV	50kV	60kV	70kV	80kVA	90kVA	
1	71	29	16	10	7	5				
2	155	71	43	29	21	16	13	10	8	
3	247	112	71	50	37	29	23	19	16	
4	343	155	98	71	54	43	35	29	25	

Specifications subject to change without notice.



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The Power+ is made in Israel by Gamatronic, a leading innovator in power electronics since 1970. Gamatronic products are distributed worldwide, are UL-approved and ISO 9001 compliant.