



Power+ RM50

## 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 by 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+ RM50 SERIES

#### THREE-PHASE 10kVA–50kVA UPS

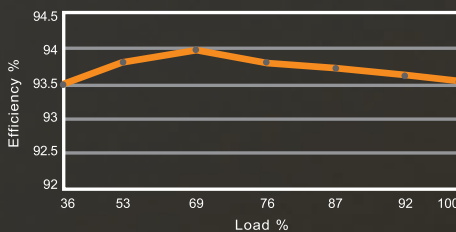
Modular · Scalable · Hot-Plug, Hot-Swap · N+1 Redundancy · Affordable



RM Matching Battery

- 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 50kVA 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.
- Compact, lightweight power modules are only 2U and 22 lbs each.
- Highest AC to AC efficiency rating of 94% results in lower energy costs and reduced heat, even at lighter loads.
- System controller provides advanced management and control functions including Internet, TCP/IP, and SNMP communications standard. UPS operation is independent of controller function.
- UPS, battery, and maintenance bypass switch mounted in 19" x 42U rack enclosure for easy installation.
- Can be field-configured for single-phase operation.

Power+ AC to AC Efficiency



POWER+ RM50 SPECIFICATIONS					
Model RM50	10kVA	20kVA	30kVA	40kVA	50kVA
Capacity – Three-Phase (kVA / kW)	10/8	20/16	30/24	40/32	50/40
Topology	On-line Double Conversion Modular Redundant with Hybrid Central Static Switch				
<b>Input</b>					
Voltage	3 x 208V Three-Phase, L1, L2, L3, N				
Voltage Range	-25% to +15% of nominal				
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				
<b>Output</b>					
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%				
<b>Static Switch</b>					
Type	Hybrid Static Switch with Auto Wrap-around Contactor				
Control Connections	EPO Connection (powered NO) and Load on Bypass (dry contacts NO)				
<b>UPS General</b>					
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)	1243	1265	1287	1786	1808
UPS Shipping Weight	Add 200 lbs for pallet and crating				
Acoustic Noise (Full Load) @ 1.5M (dB)	51	54	55	57	58
Maximum Heat Dissipation	1740 btu/hr per 10kVA power module at full load				
<b>Power+ Controller</b>					
User Interface	Menu Driven LCD				
Input Channels	4 Digital, 8 Analog				
Output Contacts	4 Programmable Dry Contacts				
System Operation without Controller	Continuous without disruption				
Log (events memory)	255 Events				
Communications	SNMP / Web Interface, TCP/IP Standard				
<b>Standards</b>					
EMC Emission	IEC62040-2; FCC part 15/8				
Safety	UL 1778; IEC62040-1-1				
<b>Battery/Charger</b>					
DC Link Voltage	384V (+192, -192)				
Max Charging Current at full load	4.5	9	13.5	18	22.5
<b>Matching Battery Cabinet</b>					
Batteries	1 to 4 strings of 32 x 20AH per cabinet				
Matching Cabinet Dimensions (HxWxD)	80" x 24" x 39.4"				
Matching Cabinet Weight (lbs)	176 lbs Cabinet Only, Batteries add 477 lbs per string				
<b>Runtime (typical)</b>					
	Load				
# of battery strings	10kVA	20kVA	30kVA	40kVA	50kVA
1	48	17	9.4	5.8	3.4
2	135	48	26	17	12
3	237	85	48	31	22
4	348	135	73	48	35

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 ISO9001 compliant.