



Power+ RM100



RM Matching Battery

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.

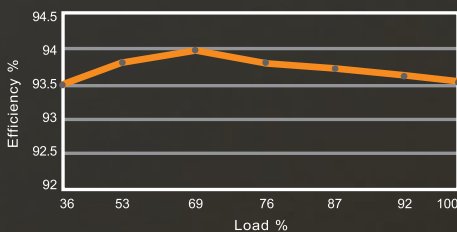
POWER+ RM100 SERIES

THREE-PHASE 10kVA–100kVA 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 100kVA 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+ RM100 SPECIFICATIONS

Model RM100	10kVA	20kVA	30kVA	40kVA	50kVA	60kVA	70kVA	80kVA	90kVA	100kVA
Capacity – Three-Phase (kVA / kW)	10/8	20/16	30/24	40/32	50/40	60/48	70/56	80/64	90/72	100/80
Topology	On-line Double Conversion Modular Redundant with Hybrid Central Static Switch									
Input										
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									
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 NO)									
UPS 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										
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									
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	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									
Runtime (typical)										
# of battery strings	Load									
	10kVA	20kVA	30kVA	40kVA	50kVA	60kVA	70kVA	80kVA	90kVA	100kVA
1	48	17	9.4	5.8	3.4					
2	135	48	26	17	12	9.4	7.3	5.8	4.2	3.4
3	237	85	48	31	22	17	13	11	9.4	7.9
4	348	135	73	48	35	26	21	17	14	12

Specifications subject to change without notice.



230 Yuma Street
 Denver, CO 80223
 (800) 576-3966
 www.maxpowercorp.com



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.