

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+ M50 RACKMOUNT

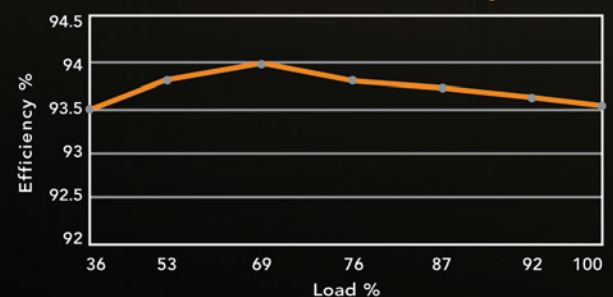
THREE-PHASE 10-50kVA UPS

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 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.
- 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, RS232, TCP/IP, and SNMP communication standard. System can operate with controller damaged or removed.
- 8U rack mountable battery cabinet can be paralleled for longer run time
- 3U rotary rack mounted bypass switch available.
- One 42U rack can hold a complete UPS solution: 50 kVA of modular power, the bypass switch and batteries to provide 12 minutes of runtime.
- All components can be factory installed before shipping, for simplified installation.



POWER+ AC to AC Efficiency



POWER+ M50 RACKMOUNT THREE-PHASE SPECIFICATIONS

| Model M50RM | 10kVA | 20kVA | 30kVA | 40kVA | 50kVA |
|--|---|---------|---------|---------|---------|
| Capacity (kVA / vW) | 10 / 8 | 20 / 16 | 30 / 24 | 40 / 32 | 50 / 40 |
| Topology | On-line Double Conversion Modular Redundant with Hybrid Central Static Switch | | | | |
| Input | | | | | |
| Voltage | 208V Three-Phase, L1, L2, L3, 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 | 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 50kVA 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 | 22 lbs. | | | | |
| UPS Dimensions (HxWxD) | 38.5"(22U) x 19" x 27.2" | | | | |
| UPS System Weight (lbs) | 137 | 157 | 176 | 196 | 216 |
| UPS Shipping Weight (lbs) | 237 | 257 | 276 | 296 | 316 |
| Bypass Switch Dimensions (HxWxD) | 5.25" (3U) x 19" x 26" | | | | |
| Bypass Switch Weight (lbs) | 60 (85 lbs. shipping weight) | | | | |
| Battery Module Dimensions | 14" (8U) x 19" x 34.9" | | | | |
| Battery Module Weight (lbs) | 600 Battery Cabinet and 8 Cartridges (640 shipping weight) | | | | |
| Battery Cartridge Weight (lbs) | 60 | | | | |
| Acoustic Noise (Full Load) @ 1.5M (dB) | 51 | 54 | 55 | 57 | 58 |
| Maximum Heat Dissipation (btuh) | 1740 | 3480 | 5220 | 6960 | 8700 |
| Power+ Controller | | | | | |
| Display | 4x40 Character LCD with Backlight | | | | |
| Input Channels | 4 Digital, 8 Analog | | | | |
| Output Contacts | 6 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 Temp | | | | |
| Log (events memory) | 255 Events | | | | |
| Communications | SNMP / Web Interface, TCP/IP RS232 Standard | | | | |
| Standards | | | | | |
| EMC Emission | IEC62040-2; FCC part 15/8 | | | | |
| Safety | UL 1778; IEC62040-1-1 | | | | |
| Battery/Charger | | | | | |
| DC Link Voltage | 384V (+192, -192) | | | | |
| Battery Pack | Rack mount Battery Pack with eight 48VDC modular battery cartridges | | | | |
| Charging Current at full load (amps) | 4.5 | 9 | 13.5 | 18 | 22.5 |
| UPS Full Load Runtime (Minutes) | | | | | |
| # of 8U Battery Modules (kVA / kW) | 10 / 8 | 20 / 16 | 30 / 24 | 40 / 32 | 50 / 40 |
| 1 | 48.0 | 17.0 | 9.4 | 5.8 | 3.4 |
| 2 | 135.0 | 48.0 | 26.0 | 17.0 | 12.0 |
| 3 | 237.0 | 85.0 | 48.0 | 31.0 | 22.0 |
| 4 | 348.0 | 135.0 | 73.0 | 48.0 | 35.0 |
| 5 | 480+ | 186.0 | 100.0 | 65.0 | 48.0 |



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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.