

## 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+ M100 CLASSIC

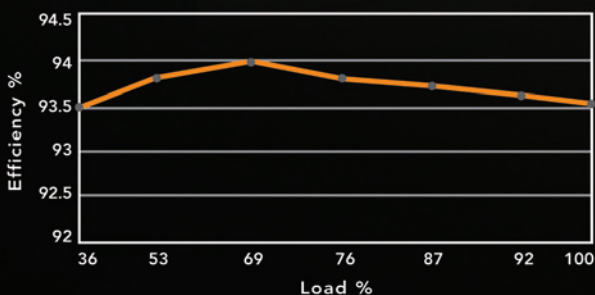
### THREE-PHASE 10-100kVA UPS

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.
- 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.
- External battery cabinets to meet runtime requirement.
- Rotary and three-breaker maintenance bypass switches available.



Power+ AC to AC Efficiency



**POWER+ M100 CLASSIC THREE PHASE SPECIFICATIONS**

Model M100	10kVA	20kVA	30kVA	40kVA	50kVA	60kVA	70kVA	80kVA	90kVA	100kVA
Capacity (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									
<b>Input</b>										
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									
<b>Output</b>										
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%									
<b>Static Switch</b>										
Type	Hybrid 100kVA Static Switch with Auto Wrap-around Contactor									
Control Connections	EPO Connection (powered NC) and Load on Bypass (dry contacts NC)									
<b>General</b>										
Ambient Temperature	14°F to 104°F (operating), -4 to 140°F (storage)									
10kVA/8kW Module Weight (lbs.)	22									
UPS Dimensions (HxWxD)	64.6" x 23.6" x 42.9"									
UPS System Weight (lbs)	366	388	410	432	454	476	498	520	542	564
UPS Shipping Weight (lbs)	660	685	710	735	760	785	810	835	860	885
Acoustic Noise (Full Load) @ 1.5M (dB)	51	54	55	57	58	59	59	60	61	61
Maximum Heat Dissipation (btuh)	1740	3480	5220	6960	8700	10400	12180	13920	15660	17400
<b>Power+ Controller</b>										
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									
<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)									
Battery Pack	External battery packs to meet runtime requirement									
Max Charging Current at full load	4.5	9	13.5	18	22.5	27	31.5	36	40.5	45



**Performance Technology Solutions**  
 P: 303.697.8687 • F: 888.412.2565  
 info@ptsups.com • www.ptsups.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.