

THE NEXT GENERATION IN MODULAR UPS

GAMATRONIC POWER +

The Gamatronic Power + three-phase UPS system employs a singleunit form factor that conserves 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 INTERNAL BATTERY MODELS

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 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 communications standard. System can operate with controller damaged or removed.
- Internal battery saves valuable data center floor space.
- Rotary and three-breaker maintenance bypass switches available.





POWER +M50 THREE-PHASE TECHNICAL SPECIFICATIONS					
Model M50	10kVA	20kVA	30kVA	40kVA	50kVA
Capacity (kVA / kW)	10 / 8	20 / 16	30 / 24	40 / 32	50 / 40
Topology	On-Line Double	e-Conversion Mo	dular Redundant	with Hybrid Centr	al 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 Output	0.99				
Voltage	120 / 208 Three-Phase, L1, L2, L3, N				
Current	27.8 Amps Per 10kVA Module				
Frequency Tracking Range	60Hz +/- 2 Hz				
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					
Туре	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°F to 140°F (storage)				
10kVA/8kW Module Weight (lbs)	22				
LIDO Disconsione (LL v. M. v. D.)	51.8" x 23.6" x 29.2" (2 slot model) 66.1" x 23.6" x 29.2" (3 slot model) 74.5" x 23.6" x 38.3" (5 slot model)				
UPS Dimensions (H x W x D)					
UPS System Weight (lbs.)		74.5 X Z	3.0 X 30.3 (3 SIC	l moder)	
2 slot model	774	796			
3 slot model	1048	1070	1092		
5 slot model	1518	1540	1562	1584	1606
UPS Shipping Weight (lbs.)		Add 1	50 lbs to System \	Weight	
Acoustic Noise (Full Load) @ 1.5M (dB)	51	54	55	57	58
Maximum Heat Dissipation (btu/h)	1740	3480	5220	6960	8700
Power+ Controller					
Display	4x40 Character LCD with Backlight				
Input Channels	4 Digital, 8 Analog				
Output Contacts	Up To 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				
	Module Failure, AC Alarm, DC Alarm, On Bypass, Battery Test Fail, Overload,				
Alarms	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	Nominal 384V (+192, -192)				
Battery Pack	Internal battery packs to meet runtime requirement				
Max Charging Current at full load (amps)	4.5	9	13.5	18	22.5
Runtime (Minutes)	10kVA	20kVA	30kVA	40kVA	50kVA
2 slot model	29	10			
3 slot model	48	19	10	 17	12
5 slot model	135	48	26	1/	12