

## THE NEXT GENERATION IN MODULAR UPS

## **GAMATRONIC POWER+**

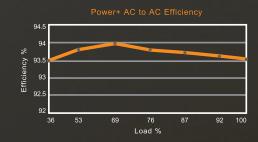
The Gamatronic Power+ three-phase UPS system employs a single-unit form factor that conserves precious data center floor space and its lightweight, user-friendly, 10kVA modules provide simple, reliable low-cost expansion to meet your growing power needs. Because the Power+ is modular and scalable, you 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+ M100 SERIES**

## THREE-PHASE 10kVA-100kVA UPS SINGLE-PHASE 7.5kVA-75kVA 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.
- External battery cabinets and maintenance bypass switches available.
- Can be field-configured for single-phase operation.







		POWER	R+ M100	SPECIFI	CATIONS	3				
Model M100	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
Capacity—Single-Phase (kVA/kW)	7.5/6	15/12	22.5/18	30/24	37.5/30	45/36	52.5/42	60/48	67.5/54	75/60
Topology	On-line Double Conversion Modular Redundant with Hybrid Central Static Switch									
Input										
Voltage	3 x 208V Three-Phase, L1, L2, L3, N 120/208 or 120/240 Single-Phase, L1, L2, N									
Voltage Range	-25% to +15% of nominal									
Current	29.6 Amps per phase per 10kVA Module - No inrush current at Startup									
Frequency (Hz)	47 - 63									
Power Walk In					> 60 s	econds				
Current Distortion (THDI)					<5% at	full load				
Input Power Factor					0.	99				
Output										
Voltage	3 x 120 / 208V Three-Phase, L1, L2, L3, N 120/208 or 120/240 Single-Phase, L1, L2, N									
Current				27.8 An	nps per phas	se per 10kV	A Module			
Frequency Tracking Range					60Hz	+/-2Hz				
Static Regulation					+/-	1%				
Regulation for Unbalanced Load				+/-1	% for 100%	Unbalance	d load			
Dynamic Response to 100% Step Load	+/-2%									
Overload			11	0% for 10 n	nin; 125% fo	r 60 sec; 10	000% for 1 c	cycle		
THD				L	ess than 2%	for linear lo	oad			
Load Crest Factor (Max)					4	:1				
Efficiency (Nominal)				AC/	AC 94% on-	line, DC/AC	97%			
Static Switch										
Туре	Hybrid Static Switch with Auto Wrap-around Contactor									
	EPO Connection (powered N.C.) and Load on Bypass (dry contacts N.O.)									
Control Connections		E							O.)	
- * *		E							O.)	
Control Connections		E	EPO Connec	ction (power		d Load on E	Bypass (dry	contacts N.	O.)	
Control Connections UPS General		E	EPO Connec	ction (power	red N.C.) and	d Load on E	Bypass (dry	contacts N.	O.)	
Control Connections  UPS General  Ambient Temperature		E	EPO Connec	ction (power	red N.C.) and 4°F (operation	d Load on E	Bypass (dry	contacts N.	O.)	
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)	366	388	EPO Connec	ction (power	red N.C.) and 4°F (operation	d Load on E	Bypass (dry	contacts N.	O.) 542	564
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)	366		EPO Connec	14°F to 104	ed N.C.) and 4°F (operation 2 64.6" x 23	d Load on E	Bypass (dry 0°F (storage	contacts N.		564
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)	366		EPO Connec	14°F to 104	1°F (operatin 64.6" x 23	d Load on E	Bypass (dry 0°F (storage	contacts N.		564
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight		388	410 55	14°F to 104  432  Add 57	ed N.C.) and F'F (operation 2 64.6" x 23 454 250 lbs for	g), -4 to 14 22 3.6" x 42.9" 476 pallet and c	Bypass (dry  0°F (storage  498  rating  59	contacts N. e) 520	542	
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight  Acoustic Noise (Full Load) @ 1.5M (dB)		388	410 55	14°F to 104  432  Add 57	ed N.C.) and f°F (operation 2 64.6" x 23 454 250 lbs for 58	g), -4 to 14 22 3.6" x 42.9" 476 pallet and c	Bypass (dry  0°F (storage  498  rating  59	contacts N. e) 520	542	
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight  Acoustic Noise (Full Load) @ 1.5M (dB)  Maximum Heat Dissipation		388	410 55	14°F to 104  432  Add 57	ed N.C.) and  f°F (operation  64.6" x 23  454  250 lbs for  58  per 10kVA	g), -4 to 14 22 3.6" x 42.9" 476 pallet and c	Bypass (dry  0°F (storage  498  rating  59	contacts N. e) 520	542	
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight  Acoustic Noise (Full Load) @ 1.5M (dB)  Maximum Heat Dissipation  Power+ Controller		388	410 55	14°F to 104  432  Add 57	ed N.C.) and  1°F (operatin 2 64.6" x 23 454 250 lbs for 58 per 10kVA	d Load on E  g), -4 to 14  22  8.6" x 42.9"  476  pallet and c  59  power modu	Bypass (dry  0°F (storage  498  rating  59	contacts N. e) 520	542	
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight  Acoustic Noise (Full Load) @ 1.5M (dB)  Maximum Heat Dissipation  Power+ Controller  User Interface		388	410 55	432 Add 57 1740 btu/hr	ed N.C.) and  1°F (operatin 2 64.6" x 23 454 250 lbs for 58 per 10kVA	d Load on E  g), -4 to 14  22  6.6" x 42.9"  476  pallet and c  59  power moduliven LCD  8 Analog	Bypass (dry  0°F (storage  498  rating  59  ule at full loa	contacts N. e) 520	542	
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight  Acoustic Noise (Full Load) @ 1.5M (dB)  Maximum Heat Dissipation  Power+ Controller  User Interface  Input Channels		388	410 55	432 Add 57 1740 btu/hr	ed N.C.) and  FF (operatin  2  64.6" x 23  454  250 lbs for  58  per 10kVA p  Menu Dr  4 Digital,	d Load on E  g), -4 to 14  22  6.6" x 42.9"  476  pallet and c  59  power moduliven LCD  8 Analog	Bypass (dry  0°F (storage  498  rating  59  ule at full load	contacts N. e) 520	542	
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Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight  Acoustic Noise (Full Load) @ 1.5M (dB)  Maximum Heat Dissipation  Power+ Controller  User Interface  Input Channels  Output Contacts  System Operation without Controller  Log (events memory)  Communications  Standards		388	410 55	432 Add 57 1740 btu/hr	ed N.C.) and  f°F (operatin  2 64.6" x 23 454 250 lbs for  58 per 10kVA p  Menu Dr  4 Digital,  Programmab  ontinuous wi  255 E  Web Interfa	d Load on E  g), -4 to 14  22  8.6" x 42.9"  476  pallet and c  59  cower moduliven LCD  8 Analog elle Dry Cont thout disrup Events  ce, TCP/IP	Bypass (dry  0°F (storage  498  rating  59  ule at full load  tacts  standard	contacts N.  e)  520	542	
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight  Acoustic Noise (Full Load) @ 1.5M (dB)  Maximum Heat Dissipation  Power+ Controller  User Interface  Input Channels  Output Contacts  System Operation without Controller  Log (events memory)  Communications		388	410 55	432 Add 57 1740 btu/hr	ed N.C.) and  f°F (operatin  2 64.6" x 23 454 250 lbs for  58 per 10kVA p  Menu Dr  4 Digital,  Programmab ontinuous wi	d Load on E  g), -4 to 14  22  8.6" x 42.9"  476  pallet and c  59  cower moduliven LCD  8 Analog elle Dry Cont thout disrup Events  ce, TCP/IP	Bypass (dry  0°F (storage  498  rating  59  ule at full load  tacts  standard	contacts N.  e)  520	542	
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight  Acoustic Noise (Full Load) @ 1.5M (dB)  Maximum Heat Dissipation  Power+ Controller  User Interface  Input Channels  Output Contacts  System Operation without Controller  Log (events memory)  Communications  Standards  EMC Emission  Safety		388	410 55	432 Add 57 1740 btu/hr	ed N.C.) and  f°F (operatin  2 64.6" x 23 454 250 lbs for  58 per 10kVA p  Menu Dr  4 Digital,  Programmab  ontinuous wi  255 E  Web Interfa	d Load on E  g), -4 to 14i  22  3.6" x 42.9"  476  pallet and c  59  cower modulities LCD  8 Analog ble Dry Cont thout disruptivents  ce, TCP/IP	Bypass (dry  0°F (storage  498  rating  59  ule at full load  tacts  btion  Standard	contacts N.  e)  520	542	
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight  Acoustic Noise (Full Load) @ 1.5M (dB)  Maximum Heat Dissipation  Power+ Controller  User Interface  Input Channels  Output Contacts  System Operation without Controller  Log (events memory)  Communications  Standards  EMC Emission  Safety  Battery/Charger		388	410 55	432 Add 57 1740 btu/hr	ed N.C.) and  f°F (operatin  2  64.6" x 23  454  250 lbs for  58  per 10kVA p  Menu Dr  4 Digital,  Programmab  ontinuous wit  255 E  Web Interfa  EC62040-2;  UL 1778; IE	d Load on E  g), -4 to 14i  22  8.6" x 42.9"  476  pallet and c  59  cower modulities LCD  8 Analog ble Dry Cont thout disrup Events ice, TCP/IP  FCC part 1:	Bypass (dry  0°F (storage  498  rating  59  ule at full load  tacts  btion  Standard	contacts N.  e)  520	542	
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight  Acoustic Noise (Full Load) @ 1.5M (dB)  Maximum Heat Dissipation  Power+ Controller  User Interface  Input Channels  Output Contacts  System Operation without Controller  Log (events memory)  Communications  Standards  EMC Emission  Safety  Battery/Charger  DC Link Voltage	51	388	410 55	432 Add 57 1740 btu/hr	ed N.C.) and  1°F (operatin 2 64.6" x 23 454 250 lbs for 58 per 10kVA p  Menu Dr 4 Digital, Programmab ontinuous wi 255 E Web Interfa  EC62040-2; UL 1778; IE 384V (+*	d Load on E  g), -4 to 14i  22  3.6" x 42.9"  476  pallet and c  59  cower modulities LCD  8 Analog  ele Dry Cont thout disruptivents  ce, TCP/IP  FCC part 1:  CC62040-1-	Bypass (dry  0°F (storage  498  rating  59  ule at full loa  sacts btion  Standard  5/8	contacts N. e) 520 60 ad	61	61
Control Connections  UPS General  Ambient Temperature  10kVA/8kW Module Weight (lbs.)  UPS Dimensions (HxWxD)  UPS System Weight (lbs)  UPS Shipping Weight  Acoustic Noise (Full Load) @ 1.5M (dB)  Maximum Heat Dissipation  Power+ Controller  User Interface  Input Channels  Output Contacts  System Operation without Controller  Log (events memory)  Communications  Standards  EMC Emission  Safety  Battery/Charger	4.5	388	410 55	432 Add 57 1740 btu/hr	ed N.C.) and  f°F (operatin  2  64.6" x 23  454  250 lbs for  58  per 10kVA p  Menu Dr  4 Digital,  Programmab  ontinuous wit  255 E  Web Interfa  EC62040-2;  UL 1778; IE	d Load on E  g), -4 to 14i  22  8.6" x 42.9"  476  pallet and c  59  cower modulities LCD  8 Analog ble Dry Cont thout disrup Events ice, TCP/IP  FCC part 1:	Bypass (dry  0°F (storage  498  rating  59  ule at full load  tacts  btion  Standard	contacts N.  e)  520	542	

