## Flexible, Modular Power Protection

- Hot Plug, Hot Swap system enables modules to be added or swapped without interruption of output power and without transferring to bypass
- Scalability from 10kVA to 100kVA enables UPS to grow with your expanding power protection needs
- Lightweight modules are only 2U and 22 lbs. each
- Highest AC-AC efficiency rating of 94% results in lower energy costs and reduced heat
- Input Current THD <5%, Input PF = 0.99
- High reliability modular system allows cost-effective N+1 or N+2 redundancy, ensuring that the load will continue to be supported even if a module fails
- Low noise, low magnetic radiation
- VFI: Voltage/Frequency Independent Output voltage and frequency do not depend on the input voltage and frequency
- Input neutral required during all modes of operation
- Full 2-year warranty on UPS



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## Gamatronic Power+ M100

## Three-phase 10-100kVA Online Uninterruptible Power Systems



The **Gamatronic Power+ M100** is a parallel redundant modular UPS capable of scaling from 10kVA to 100kVA. Comprised of one to ten 10kVA/8kW UPS modules, as well as a system controller, a 100kVA static switch, and a distribution block, the system easily grows with your requirements.

The **Power+ M100** is a true online UPS with its batteries galvanically connected directly between the rectifier output and the inverter input on a common DC link. Other UPSs connect the batteries via a switch, making the system vulnerable to failure during transfer to backup, as the control system must detect the power outage and initiate the switch from AC input source to battery. The **Power+** M100's system controller provides advanced management and control functions including internet, RS232, TCP/IP, and SNMP communication. The high-speed microprocessor based controller uses a unique algorithm that keeps the phase and amplitude of all UPS modules synchronized and identical. System operation is not affected if the controller is removed or inoperable. The load is distributed equally between

modules using the **Gamatronic Power+ M100** Active Current Sharing at the Input, Output, and DC bus and enhanced system reliability is provided by the central static switch. The system can also be configured as a frequency converter (50 to 60Hz or 60 to 50Hz).

For increased flexibility, a variety of options are available for the **Power+M100**, including:

- External Maintenance Bypass
- External Battery Systems
- 480V Input Transformer
- On-site Startup and Service



Reliable. Modular. Flexible. Efficient.

Power+ M100 Thre	ee Pha	se Tec	hnical	Speci	ficatio	ns				
Model						M100				
Capacity (kVA/kW)	10/8	20/16	30/24	40/32	50/40	60/48	70/56	80/64	90/72	100/80
Topology	10/0	20/10	30/24			arallel Redundan			10/12	100/00
Input					DIE COUVEISION L					
					200V TL	rea Dhaca 11 10	10 N			
/oltage	23.6	47.2	70.0	04.4	118.0	ree Phase, L1, L2 141.6	<u>, lo, n</u> 165.2	188.8	212.4	236
Current (rectifier input)		<u> </u>	70.8	94.4						
Current (bypass input)	27.8	55.6	83.4	111.2	139.0	166.8	194.6	222.4	250.2	278.0
/oltage Range	-25% to +15%									
Power Walk In	> 60 seconds									
Current Distortion (THDI)	5% at full load									
nput Power Factor						0.99				
Dutput					0001/		0.11			
oltage	208V 3 Phase, L1, L2, L3, N									
urrent	27.8	55.6	83.4	111.2	139.0	166.8	194.6	222.4	250.2	278.0
requency Tracking Range						60Hz +/-2Hz				
tatic Regulation	+/-1%									
egulation for Unbalanced Load	+/-1% for 100% Unbalanced load									
ynamic Response to 100% Step Load	+/-2%									
verload	110% for 10 min; 125% for 60 sec; 1000% for 1 cycle									
HD	Less than 2% for linear load									
oad Crest Factor (Max)	4:1									
fficiency (Nominal)	AC/AC 94%, DC/AC 97%									
tatic Switch										
уре	100kVA Static Switch with Auto Wrap-around Contactor									
ontrol Connections	EPO Connection (powered NC) and Load on Bypass (dry contacts NC)									
nput Connection					Dual Inp	uts (rectifier and	oypass)			
eneral	•									
mbient Temperature	14°F to 104°F (operating), -4°F to 140°F (storage)									
OkVA/8kW Module Weight	22 lbs.									
JPS Dimensions (HxWxD)	64" x 23.4" x 38.6"									
Acoustic Noise (Full Load) @ 1.5M	51	54	55	57	58	59	59	60	61	61
Naximum Heat Dissipation (btuh)	1740	3480	5220	6960	8700	10440	12180	13920	15660	17400
JPS System Weight (Ibs)	367	389	411	433	455	477	499	521	543	565
IPS Shipping Weight (Ibs)	467	489	511	533	555	577	599	621	643	655
ower + Controller			•							
isplay	4x40 Character LCD with Backlight									
iput Channels	4 Digital, 8 Analog									
utput Contacts	6 Dry Contacts									
/stem Operation without Controller	Continuous without disruption									
n Screen Parameters	Load Bar Graph, UPS Module Status, Static Switch Status, Battery Temperature Sensor (opt)									
ower Meter	Input and Output kW, kVA, and PF									
larms	Module Failure, AC Alarm, DC Alarm, On Bypass, Battery Test Fail, Overload, Over/Under Temp									
peration without Controller			Mouvier	unore, ac alu				au, over/onuel l	omp	
og (events memory)	Continuous without disruption									
						255 Events				
tandards					15010	040 2 500	E /0			
MC Emission	IEC62040-2; FCC part 15/8									
afety					ULI	778; IEC62040-	-			
Battery/Charger					-					
Battery Cabinet	5 minutes to 8 hours									
DC Link Voltage	<u>384V (+192, -192)</u>									
Charging Current at full load (amps)	4.5	9	13.5	18	22.5	27	31.5	36	40.5	45



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