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

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.

				-		ns				
Model	10/0	00/1/	00/04	40 /00	F0 /40	M100	70 /5 /	00//4	00/70	100/00
Capacity (kVA/kW)	10/8	20/16	30/24	40/32	50/40	60/48	70/56	80/64	90/72	100/80
Topology				Unline Doub	ole Conversion	Parallel Redundant v	with Central Sta	tic Switch		
Input Values					2007	rh Dh 11 10	10 11			
Voltage	22.7	47.0	70.0	04.4		Three Phase, L1, L2,		100.0	010 4	22/
Current (rectifier input)	23.6	47.2	70.8	94.4	118.0	141.6 166.8	165.2	188.8	212.4	236
Current (bypass input)	27.8	55.6	83.4	111.2	139.0	-25% to +15%	194.6	222.4	250.2	278.0
Voltage Range										
Power Walk In	> 60 seconds									
Current Distortion (THDI)	5% at full load									
Input Power Factor						0.99				
Output					0001	/ O DI	N NI			
Voltage	208V 3 Phose, L1, L2, L3, N									
Current	27.8	55.6	83.4	111.2	139.0	166.8	194.6	222.4	250.2	278.0
Frequency Tracking Range						60Hz +/-2Hz +/-1%				
Static Regulation										
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:]									
Efficiency (Nominal)					AL/	/AC 94%, DC/AC 97°	%			
Static Switch	1			100	11/4 Ct 11 C 1	9 1 91 A . M/	16			
Туре	100kVA Static Switch with Auto Wrap-around Contactor									
Control Connections	EPO Connection (powered NC) and Load on Bypass (dry contacts NC) Dual Inputs (rectifier and bypass)									
nput Connection					Dual In	iputs (rectifier and by	/pass)			
General				1	40F+ 1040F/	/ .: \ 40 . 1	400F / 1 \			
Ambient Temperature	14°F to 104°F (operating), -4° to 140°F (storage)									
10kVA/8kW Module Weight	22 lbs.									
UPS 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
Maximum Heat Dissipation (btuh)	1740	3480	5220	6960	8700	10440	12180	13920	15660	17400
UPS System Weight (lbs)	367	389	411	433	455	477	499	521	543	565
JPS Shipping Weight (lbs)	467	489	511	533	555	577	599	621	643	655
Power + Controller	4.40 (1 100 10 11 1									
Display	4x40 Character LCD with Backlight									
nput 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									
Operation without Controller	Continuous without disruption									
og (events memory)						255 Events				
Standards					IFC/	2040 2 FCC 11	- /0			
EMC Emission						2040-2; FCC part 1:				
Safety					UL	1778; IEC62040-1-	·I			
Battery/Charger										
Battery Cabinet	5 minutes to 8 hours									
DC Link Voltage						84V (+192, -192)				
Charging Current at full load (amps)	4.5	9	13.5	18	22.5	27	31.5	36	40.5	45



800-576-3966 www.maxpowercorp.com