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 50kVA 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



1205 W Byers Place Denver, CO 80223 PH: 800.306.1125 www.unitedpb.com

Gamatronic Power+ M50

Three-phase 10-50kVA Online Uninterruptible Power Systems



The **Gamatronic Power+ M50** is a parallel redundant modular UPS capable of scaling from 10kVA to 50kVA. Comprised of one to five 10kVA/8kW UPS modules, as well as a system controller, a 50kVA static switch, and a distribution block, the system easily grows with your requirements.

The **Power+ M50** 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+ M50'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+M50** 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+ M50**, including:

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





Reliable. Modular. Flexible. Efficient.

Power+ M50 Three	Phase Technic	al Specificat	ions			
Model		M50				
Capacity (kVA/kW)	10/8	20/16	30/24	40/32	50/40	
Topology	10/0		version Parallel Redundant wi		30, 10	
Input			roision i dianoi nodonadin in			
Voltage			208V Three Phase, L1, L2, L3	3 N		
Current (rectifier input)	23.6	47.2	70.8	94.4	118.0	
Current (bypass input)	27.8	55.6	83.4	111.2	139.0	
Voltage Range	27.0	33.0	-25% to +15%	111.2	107.0	
Power Walk In	> 60 seconds					
Current Distortion (THDI)	5% at full load					
Input Power Factor	0.99					
Output			0.77			
Voltage			208V 3 Phase, L1, L2 L3,	N		
Current	27.8					
Frequency Tracking Range	21.0	JJ.0	60Hz +/-2Hz	111.2	107.0	
Static Regulation	+/-11½ +/-1%					
Regulation for Unbalanced Load	+/-1% for 100% Unbalanced load					
Dynamic Response to 100% Step Load	+/-1% for 100% unbalanced load +/-2%					
Overload	+/-2% 110% for 10 min; 125% for 60 sec; 1000% for 1 cycle					
THD	Less than 2% for linear load					
Load Crest Factor (Max)	Less man 2% for linear load 4.1					
Efficiency (Nominal) Static Switch			AC/AC 94%, DC/AC 97%			
		LUI'NV CT	Lia Conitale onith Anta Massa and	and Cantastas		
Type	50kVA Static Switch with Auto Wrap-around Contactor EPO Connection (powered NC) and Load on Bypass (dry contacts NC)					
Control Connections General		EPO Connecti	on (powerea NC) and Load on	Bypass (ary contacts NC)	
		1/07 40	04°F /anaratina\ 4°F ta 14	00F /starges)		
Ambient Temperature 10kVA/8kW Module Weight	14°F to 104°F (operating), -4°F to 140°F (storage) 22 lbs.					
- v						
UPS Dimensions (HxWxD) Acoustic Noise (Full Load) @ 1.5M		54	42.2" x 23.4" x 27.2" 55	57	58	
	1740	3480	5220	6960		
Maximum Heat Dissipation (btuh)	367	389		433		
UPS System Weight (lbs)	467	489	411 511	533	455 555	
UPS Shipping Weight (lbs)	46/	407	511	533	333	
Power + Controller			4.40 Chamatan ICD	1:-L1		
Display Least Character	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					
Operation without Controller	Continuous without disruption					
Log (events memory)			255 Events			
Standards			150/00/00 5 500	0		
EMC Emission	IEC62040-2; FCC part 15/8					
Safety	UL 1778; IEC62040-1-1					
Battery/Charger						
Battery Cabinets	5 minutes to 8 hours					
DC Link Voltage			384V (+192, -192)			
Charging Current at full load (amps)	4.5	9	13.5	18	22.5	



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