MUPS





Shown Above: MUPS-LM-LVA-4S
For customized system, please consult factory

Standard Features

True Double-Conversion

Modular Battery Design

50Hz/60Hz Selectable Frequency Mode

Emergency Power Off Function (EPO)

Generator Compatible

DSP Technology Guarantees High Reliability

Eco Mode Operation for Energy Saving (Improves the Efficiency up to 97%)

Complies with UL1778

2 Year Warranty

Applications

Data Centers

Server Rooms

Telecommunication

Labs and Hospitals

Edge of the Network

Supply Critical Load

Networking

Modular Online UPS

The La Marche Modular Online UPS (MUPS) system is a highly flexible and cost-effective solution for critical applications. This modular and scalable system can be housed in a pre-configured unit or a customizable rack, accommodating both UPS modules and battery packs. With its modular design, the MUPS offers both redundancy and scalability, ensuring it meets the users specific needs. The MUPS system is available in 3-phase, split-phase, and 1-phase configurations, making it one of the most versatile systems in the market. The system's large and user-friendly 5.7" LCD interface provides real-time power flow information, as well as controls and alarms.

ADVANTAGES OF MUPS:

• Hot-Swappable

MUPS power module and battery pack can be safely removed and inserted into the system without having to power down or transfer to mains, which minimizes downtime.

• Modular

Modular parallel UPS solutions empower customers to simplify, and increment their UPS power in a cost effective way.

• Small Footprint

MUPS has a small foot print and when extra modules are added, no extra floor space is taken up.

• N+1 Configuration

One significant benefit of modularity is the simplicity with which redundancy can be achieved. Normally, including redundancy simply includes configuring one UPS module more than is necessary to cover the essential load.

Eco-Friendly

By enabling Eco-mode user can achieve 97% efficiency and a positive effect on the environment.

MUPS SYSTEM SPECIFICATIONS



		Single Phase Configuration		Split Phase Configuration		Three Phase Configuration		
		MUPS-10KVA-4S-1/1	MUPS-20KVA-4S-1/1	MUPS-6KVA-4S-2/2	MUPS-12KVA-4S-2/2	MUPS-10KVA-4S-3/3	MUPS-20KVA-4S-3/3	
Equip Includ		(1) P24-MUPS-PC-20KVA-4S-1/1 (1) MUPS-PM-10KVA-1/1 (1) MUPS-BATT-240V-1	(1) P24-MUPS-PC-20KVA-4S-1/1 (2) MUPS-PM-10KVA-1/1 (2) MUPS-BATT-240V-1	(1) P24-MUPS-PC-12KVA-4S-2/2 (1) MUPS-PM-6KVA-2/2 (1) MUPS-BATT-120V-1	(1) P24-MUPS-PC-12KVA-4S-2/2 (2) MUPS-PM-6KVA-2/2 (2) MUPS-BATT-120V-1	(1) P24-MUPS-PC-20KVA-4S-3/3 (1) MUPS-PM-10KVA-3/3 (1) MUPS-BATT-120V-1	(1) P24-MUPS-PC-20KVA-4S-3/3 (2) MUPS-PM-10KVA-3/3 (2) MUPS-BATT-120V-1	
Input Voltage		208/220/230/240 VAC (Single Phase+ Neutral+Ground		120/208 or 110/220 or 120/240 VAC (Split Phase+Neutral+Ground)		208/220 VAC (Three Phase+Neutral+Ground)		
Output Voltage		208/220/230/240 VAC (Single Phase+Neutral)		120/208 or 110/220 or 120/240 VAC (Split Phase+Neutral)		208/220 VAC (Three Phase+Neutral)		
DC Bus Voltage		240VDC		120VDC		120VDC		
Maximum Power		20kVA		12kVA		20kVA		
Dimensions (W x D x H)		17.4 x 33.7 x 33" 442 x 856 x 838mm						
Total Slots		2 Slots for UPS Power Module 2 Slots for Battery Module 17RU Cabinet						
Protection		AC Input Breaker AC Output Breaker Emergency Power Off Port						
System Panel Display		Current Operation Mode Realtime Current Flow Chart and Measurements						
Contr Modu		Dry Output, Output and Battery Alarm Contacts Communications Port						
tes)	Load/ Battery Packs	1	2	1	2	1	2	
minu	6K			15	31			
up time (in minutes)	10K	9	19			9	19	
k up t	12K				15.5			
Back	20K		9.5				9.5	
Efficiency		AC Mode: 91% ECO Mode: 97% Battery Mode: 91%						
LCD/LED Display Indicators		UPS Status, Load Level, Battery Level, Input/Output Voltage, Discharge Timer, and Fault Conditions						
Operating Humidity		0-95% RH @ 32 to 104°F (0 to 40°C) (non condensing)						
Noise Level		Less than 58dB @ 1 Meter						
Smart RS-232 / USB		Power Management from SNMP manager and web browser						
SNMP Card		Supports Windows® 2002/2003/XP/Vista 2008/7/8/10, Linux and Mac						
Safety		IEC / EN 62040-1						
EMI		Conducted Emission FCC47 CFR15, Subpart B, Class A Radiated Emission FCC47 CFR15, Subpart B, Class A						
Approvals		Complies with UL1778, RoHS, cUL, FCC						

POWER MODULE SPECIFICATIONS



UPS Module

The UPS module is available in multiple input/output configurations in both 6KVA and 10KVA ratings to provide flexibility in design of the system based on specific needs. The pure sine wave MUPS module features low harmonic distortion and high efficiency is ideal for various critical applications. The La Marche UPS module can be mounted on a standard rack with optional kits. The modules offer ECO mode to comply with CEC efficiency requirements.



UPS Module Specifications

	MUPS-PM-10KVA-1/1	MUPS-PM-6KVA-2/2	MUPS-PM-10KVA-LV-3/3			
Rating	10K 1 Phase Input /1 Phase Output	6K Split Phase Input /Split Phase Output	10K 3 Phase Input /3 Phase Output			
Input	208/220/230/240 VAC (1P+Neutral+Ground)	120/208 110/220 120/240 (2P+Neutral+Ground)	208/220 VAC (3P+Neutral+Ground)			
Output	208/220/230/240VAC (1P + Neutral)	120/208 VAC 110/220 VAC 120/240 VAC (2P+Neutral)	208/220 VAC (3P + Neutral)			
DC Bus/Charging Current	240 VDC / 4 Amps	120 VDC / 4 Amps	120 VDC / 4 Amps			
DC Current Draw (ADC)	32.5 A	39 A	65 A			
Size/Dimensions (D x W x H)	3RU 26.7 x 16.45 x 5.2"	3RU 26.7 x 16.45 x 5.2"	3RU 26.7 x 16.45 x 5.2"			
Weight	21 lbs	18 lbs	21 lbs			
Frequency Range	40Hz ~70Hz					
Power Factor	>=0.99 @100% load					
Float Voltage	2.275V/cell Constant Current and Constant Voltage Charge Mode					
Temperature Compensation	-3.0 (Option) mV/cell					
Ripple Voltage	≤1 % V Float					
Ripple Current	≤5 % C10					
Boost Voltage	2.4V/cell Constant Current and Constant Voltage Charge Mode					
EOD Voltage	1.6V/cell					
Battery Charge	Limit Current and Constant Voltage Charger Mode • Floating Voltage 2.275V/cell • Boost Charging 2.4V/cell					
Overload	30min 1~1.1Pn • 5min 1.1~1.3Pn • 10s 1.3~1.5Pn • 200ms>1.5Pn					

Battery Pack

The La Marche battery packs provide modularity to scale based on the backup time requirement. This flexibility is ideal for future growth and maintenance. The modules are configured with maintenance free VRLA batteries. The MUPS battery packs can be paralleled up to 32 modules to provide long duration backup time for critical applications.



Battery Pack Specifications

Model Number	Rating	Total Batteries	Capacity	Dimension (D x W x H)	Weight
MUPS-BATT-120V-1	± 120 VDC Qty. 10-10 (12V)	20	10Ah	24 x 16.3 x 5.2"	115lbs
MUPS-BATT-240V-1	± 240 VDC Qty. 20-20 (12V)	40	5Ah	24 x 16.3 x 5.2"	115lbs

POWER CAGE SPECIFICATIONS



Operation Modes

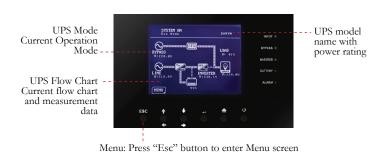
Standby Mode	Upon starting the system, the charging function is Active but the load is not powered yet
Line Mode	Charging function is active and the load is powered from power module
Battery Mode	Charging function is disabled and the load is powered from the Battery through the Power module
Bypass Mode	Charging function is active and the load is powered by utility power

ECO Mode Charging function is active and the load is powered from the Bypass. The Rectifier and Inverter remain

ON in this mode for faster transfer response

Shutdown Mode UPS is in power off state and AC power is absent

System Panel Display

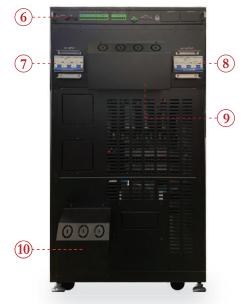


Controller Module



Complete MUPS System





- 1. Control Panel
- 2. UPS Module
- 3. LCD Display on UPS Module
- 4. Battery Pack
- 5. Leveling Foot
- 6. Controller Module
- 7. AC input Breaker
- 8. AC Output Breaker
- 9. AC Terminal
- 10. Battery Terminal