

True Online Double Conversion  
Digital Control UPS System

# MPM III Series

1kVA ~3kVA 1:1 Phase PF 0.9

## LCD Options



Colorful LCD



Gray LCD



Blue LCD



Battery Cabinet  
(Optional)



Optimized  
Battery configuration  
7Ah / 9Ah (12V)



Optional  
Socket

## FEATURES

- High power density
- Wide Input voltage range 110~300Vac
- Selectable output voltage 208/220/230/240Vac
- Smart charge design for optimized battery performance
- Maximum charging current up to 12A (Long run unit)
- Emergency power off function (EPO)
- Energy saving, Cold start & Intelligent fan speed regulation

- Generator compatible
- Load segment settable (Optional)
- Multiple communication interface: RS232 (USB / Dry contact/ SNMP card optional)
- Versatile LCD human-computer interface
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm.

## SPECIFICATIONS

MODEL	MPM 1K H	MPM 1K S	MPM 2K H	MPM 2K S	MPM 3K H	MPM 3K S
Capacity (VA/W)	1kVA / 900W		2kVA / 1800W		3kVA / 2700W	
<b>INPUT</b>						
Nominal Voltage	208 / 220 / 230 / 240Vac					
Voltage Range	110~300Vac (176~280Vac @100% load)					
Frequency range	40~70Hz (50/60Hz Auto-sensing)					
Power factor	≥.99					
<b>OUTPUT</b>						
Output Voltage	208 / 220 / 230 / 240Vac					
Power factor	0.9					
Voltage regulation	±1.0%					
Frequency	Line mode: 46~54Hz or 56~64Hz, Battery mode: 50Hz/60Hz ±0.1%					
Crest factor	3:1					
Harmonic distortion (THDv)	≤3% Liner load, ≤5% Non liner load					
Transfer time	AC mode to Bat.Mode: 0ms, Inverter to Bypass: 4ms(Typical)					
Output waveform	Pure Sinewave					
<b>EFFICIENCY</b>						
AC mode	88%		90%		91%	
Battery model	85%		87%		88%	
<b>BATTERY</b>						
Battery number	2	3	2	3	4	6
Capacity	9Ah	12V			4	6
Recharging time	4hours (to 90% of full capacity)					
Charging Voltage (±1.0%)	27.4Vdc	41.1Vdc	27.4Vdc	41.1Vdc	54.8Vdc	82.2Vdc
Charging current (Max)	6A/ 12A	1A	6A/ 12A	1A	6A/ 12A	1A
<b>INDICATORS</b>						
LED display	Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault					
LCD display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time					
<b>ALARM</b>						
Battery mode	Beeping every 4 seconds					
Battery low	Beeping every second					
Overload	Beeping twice every second					
Fault	Continuously beeping					
<b>PHYSICAL</b>						
Dimension W x D x H (mm)	144x293x209		144x399x209	191x460x337		
Net weight (kg)	4.1	9.3	12.5	10	19.5	24.5
<b>ENVIRONMENT</b>						
Operating temperature	0°C~40°C					
Storage temperature	-25°C~55°C					
Humidity range	20~95%RH @ 0~40°C (Non condensing)					
Altitude	<1500m, derating required when>1500m					
Noise level	<50dB at 1 Meter					
<b>STANDARDS</b>						
Safety	IEC/EN62040-1, IEC/EN62477-1					
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8					

## MPM BR 1-3kVA Battery Pack SPECIFICATION

MODEL	MPM BT04024C	MPM BT06036C	MPM BT08048C	MPM BT12072C	MPM BT16096C
<b>BATTERY SYSTEM</b>					
Battery Type	VRLA (Lead acid maintenance free battery)				
Typical battery recharging time	6~8 hours (To 90% of full capacity)				
Typical battery life	3~5 years, depend on discharging cycle and ambient temperature				
System voltage	24Vdc	36Vdc	48Vdc	72Vdc	96Vdc
Charging current (Max.)	1.4A				
Battery quantity	4	6	8	12	16
Capacity	9Ah / 12V (7Ah / 12V optional)				
<b>PHYSICAL</b>					
Dimension W x D x H (mm)	144 x 399 x 209			191x460x337	
Net weight (kg)	13.5	18.5	28.5	38.5	47.5
<b>ENVIRONMENT</b>					
Safety	CE			Operating environment	0°C~40°C
Relative humidity	0~95% (Non condensing)			Noise level	<40dB at 1 Meter