## **Online UPS** 1Phase Out



**ØBPS** 

MP Series Rack Mount UPS 1/2/3KVA

1:1 Phase

ECHNOLOG IGBT<sup>2</sup> SAVE ENERGY



## **Features:**

- High frequency and double conversion with PWM technology
- Fully digitized microprocessor control
- Wide input range
- LCD display
- Cold start
- Advanced battery management
- Automatic battery charging in UPS off mode
- Lightning and surge protection
- Short circuit and overload protection
- Fan speed adjusted by load automatically
- Network/fax/modem surge protection
- Optional extension battery pack
- EMI/RFI noise filter
- Smart Rs232 communication with monitoring software
- Optional SNMP card slot
- EPO function (optional)
- Input L and N reversed alarm function
- Size 2U
- IGBT based charger for smart battery management & improve input powerfactor

## Rear Panel

- 1. RS232
- 2. USB
- 3. SNMP Slot
- 4. Fan
- 5. External Battery Socket
- Output Socket
   Input Socket
- 7. Input Socket
   8. Circuit Breaker





3U



## ► Technical Specifications of MP Series 1~3KVA

MODEL	MP1101L3	MP1101B3	MP1102L6	MP1102B6	MP1103L6	MP1103B6			
Capacity (VA)	100	00	20	00	30	000			
INPUT									
Nominal Voltage			230V AC (1	Ph+N+PE)					
Operating Voltage Range	100~280V AC at 50% Load; 160~280V AC at 100% Load								
Operating Frequency Range	40~70 Hz (Auto Sensing)								
Power Factor			0.9	99					
Phase			Single Phase In /	Single Phase Out					
OUTPUT	1								
Output Voltage	1		200 / 208 / 230	/ 240V AC ±1%					
Output Frequency	Mains Mode: 50/60 Hz ±3Hz (Sync to Mains); Battery mode: 50/60 Hz ±0.1Hz								
Crest Factor / Power Factor		3:1 / 0.9							
Harmonic Distortion (THDi)		≤ 2	% with linear load; ≤	5% with nom-linear lo	pad				
Efficiency			92						
Transfer AC to DC			Ze	-					
Time Inverter to Bypass									
Waveform	4 ms (Typical) Pure Sinewave								
BATTERY	1								
DC Voltage	36	V		72	2V				
Charging Current	1A	6A	1A	6A	1A	6A			
				06 x 7AH		06 x 9AH			
Battery Configure		03 x 7AH		8 Hrs. (to 90% of full Capacity)					
, ,		03 x 7AH	8 Hrs. (to 90% c			00 X 3/11			
Typical Recharge Time		03 x 7AH	8 Hrs. (to 90% c			00 x 5/ 11			
Typical Recharge Time SYSTEM FEATURES	Input Voltage Inverte		8 Hrs. (to 90% o t Voltage & Frequenc ration Mode Such as	of full Capacity)	Percent, Load Watt, ' "ONBATT", "ERROR (				
Typical Recharge Time SYSTEM FEATURES LCD Indication	Input Voltage Inverte	& Frequency, Outpu er Temperature, Ope		of full Capacity) y, Battery Voltage & "ONLINE", "BYPASS",					
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication	Input Voltage Inverte	& Frequency, Outpu r Temperature, Ope No	it Voltage & Frequenc ration Mode Such as	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat	ion				
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm	Input Voltage Inverte	& Frequency, Outpu er Temperature, Ope No Bat	it Voltage & Frequenc ration Mode Such as rmal Operation, Bypa	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa	ion ault				
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity	Input Voltage Inverte	& Frequency, Outpu er Temperature, Ope No Bat	it Voltage & Frequenc ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte	of full Capacity) y, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms	ion ault				
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface	Input Voltage Inverte	& Frequency, Outpu er Temperature, Ope No Bat	it Voltage & Frequenc ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se	of full Capacity) y, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms	ion ault				
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL	Input Voltage Inverte	& Frequency, Outpu er Temperature, Ope No Bat	t Voltage & Frequenc ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S	of full Capacity) y, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms	ion ault				
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature	Input Voltage Inverte	& Frequency, Outpu er Temperature, Ope No Bat	t Voltage & Frequenc ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S	of full Capacity) y, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C	ion ault				
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature	Input Voltage Inverte	& Frequency, Outpu er Temperature, Ope No Bat	tt Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~4	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C	ion ault				
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range	Input Voltage Inverte	& Frequency, Outpu er Temperature, Ope No Bat	it Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~4 -15~	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing)	ion ault				
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range Altitude	Input Voltage Inverte	& Frequency, Outpu er Temperature, Ope No Bat	t Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~2 -15~0 0~95% (Non-	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing) 20 m	ion ault				
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range Altitude Noise Level	Input Voltage Inverte	& Frequency, Outpu er Temperature, Ope No Bat	it Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~2 -15~1 0~95% (Non- 0-300	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing) 20 m	ion ault				
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range Altitude Noise Level PHYSICAL	Input Voltage Inverte	& Frequency, Outpu er Temperature, Ope No Bat	it Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~2 -15~1 0~95% (Non- 0-300	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing) 20 m	ion ault				
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range Altitude Noise Level PHYSICAL Net/Shipping Weight (Kg)		& Frequency, Outpu er Temperature, Ope No Bat	it Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~4 -15~ 0~95% (Non- 0-300 <50 dBA	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing) 00 m @ 1 mtr. 25/28	ion ault s	VA & Percent, CODE".			
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range Altitude Noise Level PHYSICAL Net/Shipping Weight (Kg) Dimension WxDxH (mm)	8/10	& Frequency, Outpu er Temperature, Ope No Bat	it Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~4 -15~ 0~95% (Non- 0-300 <50 dBA	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing) 00 m @ 1 mtr. 25/28	ion ault s 10/12	VA & Percent, CODE".			
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range Altitude Noise Level PHYSICAL Net/Shipping Weight (Kg) Dimension WxDxH (mm) STANDARDS	8/10	& Frequency, Outpu r Temperature, Ope No Bat	It Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~4 -15~1 0~95% (Non- 0-300 <50 dBA 8.3/10.3	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing) 00 m @ 1 mtr. 25/28 438x580:	ion ault s 	VA & Percent, CODE".			
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range Altitude Noise Level PHYSICAL Net/Shipping Weight (Kg) Dimension WxDxH (mm) STANDARDS Quality	8/10	& Frequency, Outpu r Temperature, Ope No Bat	it Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~4 -15~ 0~95% (Non- 0-300 <50 dBA	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing) 00 m @ 1 mtr. 25/28 438x580 18001, ISO 27001, B	ion ault s 	VA & Percent, CODE".			
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range Altitude Noise Level PHYSICAL Net/Shipping Weight (Kg) Dimension WxDxH (mm) STANDARDS Quality Safety	8/10	& Frequency, Outpuer Temperature, Ope No Bat 15.5/17.5 (89 (2U) ISO 9000	It Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~2 -15~ 0~95% (Non- 0~300 <50 dBA 8.3/10.3 0, ISO 14001, OHSAS	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing) 00 m @ 1 mtr. 25/28 438x580: 18001, ISO 27001, B 52040-1	ion ault s 10/12 x133 (3U) IS, RoHS	VA & Percent, CODE".			
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range Altitude Noise Level PHYSICAL Net/Shipping Weight (Kg) Dimension WxDxH (mm) STANDARDS Quality Safety EMC / Performance	8/10	& Frequency, Outpuer Temperature, Ope No Bat 15.5/17.5 (89 (2U) ISO 9000	It Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~2 -15~1 0~95% (Non- 0-300 <50 dBA 8.3/10.3 0, ISO 14001, OHSAS IEC/ENE	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing) 00 m @ 1 mtr. 25/28 438x580: 18001, ISO 27001, B 52040-1	ion ault s 10/12 x133 (3U) IS, RoHS	VA & Percent, CODE".			
Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range Altitude Noise Level PHYSICAL Net/Shipping Weight (Kg) Dimension WxDxH (mm) STANDARDS Quality Safety EMC / Performance Communication Interface	8/10	& Frequency, Outpuer Temperature, Ope No Bat 15.5/17.5 (89 (2U) ISO 9000	It Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~2 -15~1 0~95% (Non- 0-300 <50 dBA 8.3/10.3 0, ISO 14001, OHSAS IEC/ENE	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing) 00 m @ 1 mtr. 25/28 438x580: 18001, ISO 27001, B 52040-1 2040-3, Complying to	ion ault s 10/12 x133 (3U) IS, RoHS	VA & Percent, CODE".			
Battery Configure Typical Recharge Time SYSTEM FEATURES LCD Indication LED Indication Audible Alarm Overload Capacity Communication Interface ENVIRONMENTAL Operating Temperature Storage Temperature Humidity Range Altitude Noise Level PHYSICAL Net/Shipping Weight (Kg) Dimension WxDxH (mm) STANDARDS Quality Safety EMC / Performance Communication Interface Standard Optional	8/10	& Frequency, Outpuer Temperature, Ope No Bat 15.5/17.5 (89 (2U) ISO 9000	It Voltage & Frequence ration Mode Such as rmal Operation, Bypa tery Mode, Low Batte >130~150% for 30 Se RS-232, USB & S 0~2 -15~1 0~95% (Non- 0~300 <50 dBA 8.3/10.3 0, ISO 14001, OHSAS IEC/EN6 'EN62040-2; IEC/EN6	of full Capacity) cy, Battery Voltage & "ONLINE", "BYPASS", ass and Fault Indicat ery, Over Load and Fa c, >150% for 300 ms NMP (Optional) 15°C 60°C Condensing) 00 m @ 1 mtr. 25/28 438x580 18001, ISO 27001, B 52040-1 2040-3, Complying to 232	ion ault s 10/12 x133 (3U) IS, RoHS	VA & Percent, CODE".			

\*Specifications are subject to change without prior notice.



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