

MP Series

Single Phase In- Single Phase Out

Rack Mount UPS 4~10kVA

Applications:

For all kind of ADP Machines



The **MP Series** ranges from 4 to 10kVA Rack mount & Tower design suitable for all types of power problems & protection for ADP machines. This series incorporates highest efficiency in the industry with lowest form factor. A comprehensive LCD rotational display allows users to easily monitor and access their UPS status. Low electromagnetic emissions compliant for sensitive loads.

Features:

- ♦ True online double conversion topology
- ♦ 3-Level IGBT Based Rectifier & Inverter
- ♦ Input power factor correction, ≥ 0.99
- ♦ Output power factor 1.0, kVA=kW
- ♦ Support paralleling up to 4 units
- ♦ Configurable Battery : 16/18/20 Nos.
- ♦ Generator compatible
- ♦ Charging Current of 4A (Standard) up to 10A (Optional)
- ♦ Emergency power off function (EPO)
- ♦ Rack-Tower 2-in-1 design
- ♦ Hot-swappable battery design
- ♦ User friendly LCD Display, rotation of LCD, According to tower / rack



MODEL		MP1104B16	MP1105B16	MP1106B16	MP1104L16	MP1105L16	MP1106L16	MP1110L16
PHASE		Single Phase with Ground						
CAPACITY		4kVA/kW	5kVA/kW	6kVA/kW	4kVA/kW	5kVA/kW	6kVA/kW	10kVA/10kW
INPUT								
Nominal Voltage		208/220/230/240VAC						
Input Voltage Range		110-286VAC						
Frequency Range		46Hz ~ 54 Hz or 56Hz ~ 64 Hz						
Power Factor		≥ 0.99						
OUTPUT								
Output Voltage		208/220/230/240VAC						
Voltage Regulation		± 1%						
Frequency Range (Synchronized Range)		40-70Hz						
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz						
Current Crest Ratio		3:1						
Harmonic Distortion		≤ 2 % THD (Linear Load) ; ≤ 5 % THD (Nonlinear Load)						
Transfer Time	AC Mode to Battery Mode	0 ms						
	Inverter to Bypass	0 ms						
Waveform (Batt. Mode)		Pure Sinewave						
Efficiency (AC to AC)		≥ 94%						
BATTERY								
Battery Type		12 V / 9 AH			Depending on applications			
Numbers		16			16/18/20 pcs (Adjustable), ±96, ±108, ±120V DC			
Typical Recharge Time		6 Hrs recover >90% capacity			6-8 Hrs recover >90% capacity			
Charging Current		1A (Adjustable)			4A (Standard) & 10A (Optional)			
Charging Voltage		218.4 VDC ±1V			13.65 x N (N = Number of batteries)			
STATUS INDICATION								
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer and Fault conditions						
Audible Alarm		Battery Mode, Low Battery, Overload, Fault						
PHYSICAL								
Dimension, D x W x H (mm)		440 x 625 x 177 (4U)			440 x 625 x 86.5 (2U)			
Net Weight (kgs)		48			16		18	
ENVIRONMENT								
Humidity		0-95 % RH @ 0- 50°C (non-condensing)						
Noise Level		Less than 55dB @ 1 Meter						Less than 58dB @ 1 Meter
MANAGEMENT								
Smart RS-232 / USB / IoT		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC , IoT enable						
SNMP (Optional)		Power management from SNMP manager and web browser						

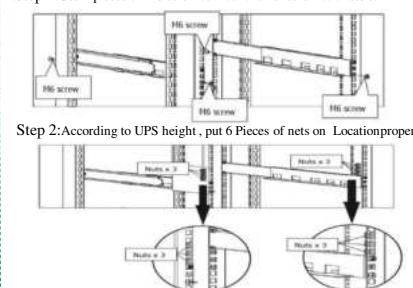
Technical Specifications of Battery Pack

MODEL	BPMP110K20N9
Supported UPS	4k/5k/6K/10kVA
Battery Type	12 V/9 Ah
Battery Number	16/18/20 numbers
Battery Voltage	192/216 240 VDC
Dimension(DxWxH)	440x680x133 [3U]
Net Weight (kgs)	63

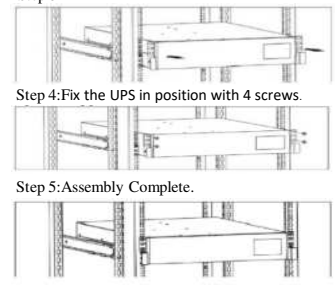


Rail-Kit for Rack Mounting

Step 1: Use 4 pieces of M6 screw to mount rail sliders into chassis.



Step 3: Put UPS with assembled ears on the rail support.



Backup Chart (6 & 10kVA)

Load	MP1106B16	MP1106L+1BP	MP110L16+1BP	MP1106L16+2BP	MP110L16+2BP
10 Pc	45-50 Minutes			120-130 Minutes	
5 Pc, 1 server***	10-15 Minutes			25-30 Minutes	
10 Pc, 2 server	-	-	upto 5 Minutes	-	10-15 Minutes****
20 Pc, 2 server	-	-	-	-	8-10 Minutes****

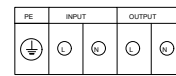
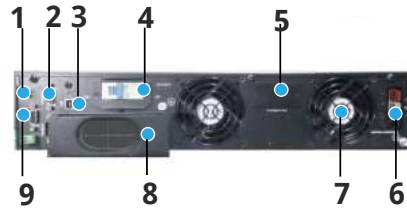
* Derate to 80% of capacity in frequency converter mode.

** Product specifications are subject to change without prior notice.

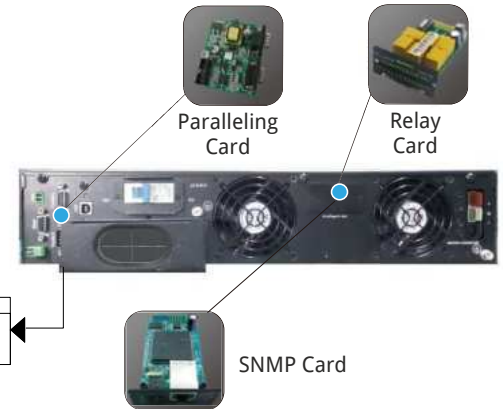
*** 1 PC load of 100W & 1 Server Load of 2.5kW considered in back-up Chart

Rear Panel

1. EPO (Emergency Power Off)
2. Paralleling Port
3. USB
4. Input Breaker
5. SNMP Port
6. Battery Connector Port
7. Fan
8. Terminal
9. RS232 Port



Terminal Block



Accessories

Relay Card & SNMP Card

Relay Card provides a set of relay contacts for managing UPS alarm notifications and operating states. This board also provides the possibility of associating battery working, Bypass, Alarm & Battery low warnings with potential free contacts on normally close or normally open contacts.

SNMP allows UPS directly connected over LAN connections to be managed using the Main network communication protocols (TCP/IP, HTTP and SNMP).



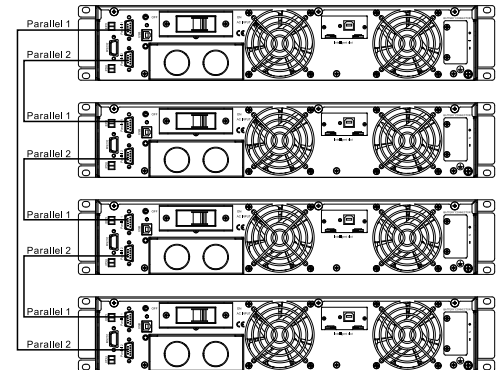
Relay Card



SNMP Card

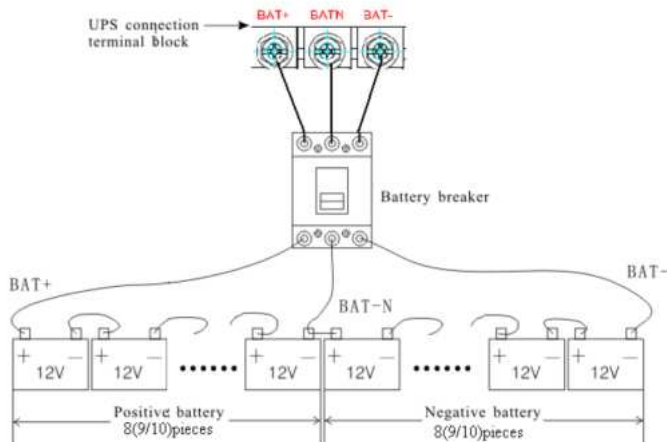
Paralleling Card (Load Balancer)

This device allow the UPS to be used in simple parallel operation with up to 4 Units, allowing scalability for increase power capacity & improved reliability due to the redundancy operation.



Installation Guide

Battery Connection



Wire Sizing

UPS module	AC Input (mm ²)	AC Output (mm ²)	DC Input (mm ²)	Grounding (mm ²)
4/5/6kVA	6	6	6	6
10KVA	10	10	10	10

Power Is 



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