

# MPP Series

Rack Mount UPS  
1/2/3kVA

## Applications:

For all kind of ADP Machines



The **MPP series** ranges from 1 to 3kVA Rack mount & Tower design suitable for all types of power problems & protection for ADP machines. This series incorporates lowest form factor. A comprehensive LCD display allows users to easily monitor and access their UPS status. Low electromagnetic emissions compliant for sensitive loads.

## Features:

- ♦ True Online Double-Conversion Technology (VFI-SS-111)
- ♦ DSP Technology Guarantees High Performance
- ♦ Pure Sine Wave Output
- ♦ IGBT Based both Rectifier & Inverter
- ♦ Wide Input Voltage Range (100V~300V AC)
- ♦ Input Power Factor Correction  $\geq 0.99$
- ♦ 3-Stage Charging for Optimized Battery Performance
- ♦ Rack mount / Tower Convertible Design
- ♦ Output Power Factor unity (1.0, kVA = kW)
- ♦ Hot-swappable Battery Design
- ♦ User Friendly LCD for Monitoring
- ♦ Supports Frequency Conversion Mode
- ♦ ECO mode operation for energy saving
- ♦ Emergency power off function (EPO)
- ♦ Fan Speed Regulation as per Load
- ♦ Automatic Static Bypass Switch
- ♦ Inbuilt Cold Start & Soft Start Feature
- ♦ Auto Restart Function
- ♦ Generator Input Compatible
- ♦ IoT Compatible with wifi/Bluetooth Monitoring

## Front Panel:



## Rear Panel:



Optional socket

Dry contact card

SNMP



Internal Battery Model		MPP1101B2	MPP1102B6	MPP1103B6
External Battery Model		MPP1101L2	MPP1102L6	MPP1103L6
PHASE		Single Phase with Groung		
CAPACITY		1000VA / 1000W	2000VA / 2000W	3000VA / 3000W
INPUT				
Nominal Voltage		208/220/230/240VAC		
Input Voltage Range		100-300 VAC at 50% load 160-300 VAC at 100% load		
Frequency Range		40Hz ~ 70 Hz		
Power Factor		≥ 0.99 @ Nominal Voltage (100% load)		
OUTPUT				
Output Voltage		208/220/230/240VAC		
Voltage Regulation		± 1%		
Frequency Range (Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz		
Frequency Range (Batt. Mode)		50Hz/60Hz ± 0.1 Hz		
Current Crest Ratio		3:1		
Harmonic Distortion		≤ 1% THD (Linear Load)		
Transfer Time	AC Mode to Battery Mode	Zero		
	Bypass to Inverter	4 ms (Typical)		
Waveform (Batt. Mode)		Pure Sinewave		
Efficiency (AC to AC)		92.0% Dual Conversion Mode, 99.0% ECO Mode		
BATTERY				
Internal Battery Model	Battery Type	12 V / 9 AH	12 V / 9 AH	12 V / 9 AH
	Numbers	2	6	6
	Typical Recharge Time	4-6 Hrs recover >90% capacity		
	Charging Current	1.0 A		
	Charging Voltage	27.4VDC ± 1V	82.1 VDC ± 1V	
External Battery Model	Battery Type	SMF VRLA / Lithium Battery Compatible		
	Numbers	3	6	
	Charging Current (max.)	1.0A/2.0A/4.0A/6.0 A		
	Charging Voltage	41.0VDC ± 1V	82.1 VDC ± 1	
STATUS INDICATION				
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer and Fault conditions		
Alarm / Protection		Short Circuit, Input Under/Over Voltage, Over Temperature, Over Current, Over Load, DC BUS Under / Over Voltage and Battery low		
PHYSICAL				
Internal Battery Model	Dimension, D x W x H (mm)	440 x 325 x 86.5 [2U]	600 x 440 x 86.5 [2U]	
	Net Weight (kgs)	12	19	29.3
External Battery Model	Dimension,D x W x H (mm)	440 x 325 x 86.5 [2U]	600 x 440 x 86.5 [2U]	
	Net Weight (kgs)	5.6	10.5	11
ENVIRONMENT				
Humidity / Altitude / Temperature		0~95% RH (Non-condensing) / 1500M / Operating: 0~50°C* & Storage: -15°C~60°C		
Noise Level		Less than 50dB @ 1 Meter		
STANDARDS				
Quality		ISO 90001, ISO 14001, ISO 27001, ISO 45001, ISO 50001, BIS, RoHS		
Safety		IEC/EN62040-1; Conformity to IEC / EN		
EMC / Performance		IEC/EN62040-2; IEC/EN62040-3, Complying to CE		
MANAGEMENT				
Smart RS-232 / USB / IoT		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC , IoT enable		
Optional SNMP		Power management from SNMP manager and web browser		

## Technical Specifications of Battery Pack

MODEL	BPMP16N9	BPMP12N9	BPMP18N9
Supported UPS	1kVA/2kVA/3kVA		
Battery Type	12V-7/9Ah		
Battery Number	6 numbers	12 numbers	18 numbers
Battery Voltage	36/72VDC	36/72VDC	36/72VDC
Dimension(DxWxH)	410x438x88 [2U]	630x438x133 [2U]	630x438x133 [3U]
Net Weight (kgs)	22	41	65



BPMP16N9/BPMP12N9



BPMP18N9

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