

MM SERIES LINE INTERACTIVE

Long Back-up Time UPS with 30 Amp Battery Charger 1000VA to 3000VA

- Ecologically Smart & User Friendly
- Short Circuit and Overload Protection
- Cold Start
- Advanced Battery Management (ABM)
- Charging Current Can Be Adjusted By Selector
- High Efficiency and Low Idle Current to Keep Low Operating Costs
- Back-up, Online, Battery Status, Power Status by LCD Display
- Built-in 30 Amp Powerful Smart Charger For Long Back-up Time and Extended Battery Life
- Quiet Operation, Heavy Duty Reliability
- Off Mode Charging



MM Series Line Interactive Technical Specifications

MODEL	MM-1000L	MM-1500L	MM-2000L	MM-3000L
CAPACITY	1000VA/600W	1500VA/900W	2000VA/1200W	3200VA/2000W
INPUT				
AC Voltage	220VAC/230VAC/240VAC			
AC Voltage Tolerance	187VAC-254VAC ±4%			
DC Voltage	12VDC		24VDC	
DC Voltage Tolerance	10VDC-14VDC		20VDC-28VDC	
Frequency	47Hz-53Hz or 57Hz-63Hz			
OUTPUT				
Voltage	220VAC/230VAC/240VAC			
Voltage Tolerance (Batt. Mode)	±7%			
Frequency	50Hz or 60Hz			
Frequency Tolerance	±1Hz in battery mode			
Transfer Time	<10ms (typical)			
Waveform	Simulated Sinewave			
BATTERY				
Type	Maintenance free dry type (suggested)			
Capacity	Up to 1000Ah			
Battery Low Level	10.8V±0.2V		21V±0.5V	
Battery Cut Off Level	10V±0.2V		20V±0.5V	
Battery Cabinet	External; Rack or Cabinet (optional)			
CHARGER				
Battery Charge Voltage	13.6V±0.2V		27.5V±0.3V	
Charge Capacity	30Amp max. (adjustable)			
Over Charge Protection	14.5V±0.5V		29V±0.5V	
DISPLAY & CONTROL PANEL				
Control Panel	Power On/Off & UPS test button, battery charge current adjustment			
Line Mode	AC normal LCD lighting			
Battery Mode	Back-up LCD lighting			
Overload	Overload LCD lighting			
Over Temperature	Over temperature LCD lighting			
UPS Off	Cut off LCD lighting			
Load Level	5-step LCD lighting			
Battery Level	5-step LCD lighting			
PROTECTION				
Full Protection	Overload, short circuit, over charge, over temperature, Input & Output fuse			
ENVIRONMENT				
Audible Noise	<45dB at 1 meter			
Operating Temperature	0°C - 40°C			
Storage Temperature	-20°C /+70°C			
Relative Humidity	0-90% (non-condensing)			
Type of Cooling	Forced with fan			
PHYSICAL				
Dimensions (D*W*H) mm	420*218*160			
Weight (Without Battery)	11	14	16	20

