



Online UPS

MF Series

1KVA

Applications:

PC, Servers, Networking Equipments,
Security Systems, Medical Equipments etc.



Control Panel
up to 50 Items Set by LCD



USB



SNMP



Dry Contact Card



Mini Dry
Contact Card



Rear Panel

Features:

- True Online, Double Conversion, PWM Technology.
- Fully Digitized Microprocessor Control, High Frequency, Pure Sine Wave Output.
- LCD Display and Wide Input Voltage Range
- High Efficiency up to 91%
- High Input Power Factor >0.99
- Galvanic Isolation through Transformer
- IGBT Based - Inverter & Rectifier
- Advanced Battery Management
- Automatic Battery Charge in UPS Off Mode
- EMI/RFI Noise Filter
- Smart RS232 Communication with Monitoring Software
- Optional - TVSS, SNMP & ModBus Card
- Supports - Generator & Solar Input
- High Reliability Digital Control
- Protection: Input Protection Through Inbuilt MOV, Overload, Surge, Battery Deep Discharge Protection, Automatic Self-test Features, Low Battery, Battery Over Charge, Short Circuit Protection through MCB, Charging Current Circuit, Inverter Over Temperature



► Technical Specifications

MODEL	MF1101L3	
Capacity (VA)	1000	
INPUT		
Nominal Voltage	220V/230V/240V AC	
Operating Voltage Range	80V~280V AC (Depends on Load%), 110V~300V AC (Based on load at 50%), 160V~280V AC (Based on load at 100%)	
Operating Frequency Range	46Hz ~ 54Hz ±0.5Hz or 56Hz ~ 64Hz ±0.5Hz (auto sensing 50/60 Hz)	
Power Factor	>0.99	
OUTPUT		
Output Voltage/Regulation/PF	220V; 230V; 240V AC / ±1% / 0.8 Std.	
Output Frequency	Synchronized with the utility on AC mode, 50Hz/60Hz ±0.1% on Battery mode	
Harmonic Distortion (THDv)	<2% (Linear load), <3% (Non Liner Load)	
Crest Factor	3:1 (Max)	
Efficiency Overall	Overall: 90%, Inverter: 86%	
BATTERY		
DC Voltage	36V DC	
Battery Type & Number	SMF/VRLA 12Vx3	
Charging Current	6A (Adjustable)	
Typical Recharge Time	8 Hours (to 90% of full capacity)	
SYSTEM FEATURES		
LCD Indication	Input Voltage/Frequency, Battery Voltage, Output Voltage/Frequency, Load Watt/VA and %, Inverter Temperature, Operation Mode such as "On Line", "ON Batt" or On "Bypass", Fault Codes, Battery & Load Bar graph	
LED Indication	Green LED for Normal Operation, Yellow LED for Warning Condition, Red LED for Abnormal Operation, Amber LED for Normal, Battery Mode	
Audible Alarms	Buzzer for Battery Low, DC High, Inverter Under/Over Voltage, UPS Over Load, Short Circuit, Fan Failure and UPS Fault.	
Overload	Inverter	105%~130% Turn to Bypass after 1 Min.; 150% Turn to Bypass after 30 Sec.
	Battery	105%~130% Shutdown after 10 Sec.; 150% Shutdown after 5 Sec.
Transfer Time	AC to Battery : 0ms, Inverter to Bypass : 4ms	
Communication Interface	Rs232; SNMP (Optional)	
ENVIRONMENTAL		
Operating Temperature	0°C ~ 50°C	
Storage Temperature	-25°C ~ 70°C	
Humidity Range	0% ~ 95% (Non-Condensing) at 0°C ~ 50°C	
Altitude	<1500m	
Noise Level	<45db	
PHYSICAL		
Dimension WxDxH (mm)	380x143x209	
Packing WxDxH (mm)	472x208x310	
Net/Shipping Weight (Kg)	5.6/6.8	
STANDARDS		
Safety	IEC/EN62040-1; IEC/EN60950-1	
EMC	IEC/EN62040-2; IEC61000-4-2; IEC61000-4-3; IEC61000-4-4; IEC61000-4-5; IEC61000-4-6; IEC61000-4-8	

*Specifications are subject to change without prior notice.



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