

## MF Series

1~3KVA

### Application:

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



Control Panel  
up to 50 Items Set by LCD



### 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 Input Power Factor >0.99
- Static Bypass and Cold Start
- IGBT Based - Inverter & Rectifier
- Isolation Transformer Compatible
- Advanced Battery Management
- Automatic Battery Charge in UPS Off Mode
- EMI/RFI and Noise Filter
- Generator and Solar Compatible
- High Reliability Digital Control
- Auto-start Function
- ECO Mode

### Rear Panel

1. RS232
2. Intelligent Slot / SNMP(Optional)
3. External Battery(Optional)
4. Fan
5. Output Sockets
6. Power Breaker
7. Input
8. Output Terminal Block
9. EPO(Optional)



## ▶ Technical Specifications of MF Series 1~3KVA

MODEL	MF1101L3	MF1101B3	MF1102L6	MF1102L8	MF1102B8	MF1103L6	MF1103L8	MF1103B8
Capacity (VA)	1000		2000			3000		
<b>INPUT</b>								
Nominal Voltage	220V/230V/240V AC (1Ph+N+PE, 3 Wire)							
Operating Voltage Range	90V~300V AC Load Dependent							
Operating Frequency Range	50 / 60 Hz $\pm$ 10% (Auto Sensing)							
Power Factor	>0.99							
<b>OUTPUT</b>								
Output Voltage/Power Factor	220V / 230V / 240V AC / $\pm$ 1% / 0.8 Std., 0.9 Optional							
Output Frequency	Auto Sensing 50 / 60 Hz $\pm$ 1~10% Sync Mode (Configurable), 50/60 Hz $\pm$ 0.1 Hz Battery Mode							
Harmonic Distortion (THDv)	<2% (Linear load), <5% (Non Liner Load)							
Crest Factor	3:1							
Efficiency	Up to 94% Dual Conversion Mode, 99% ECO Mode							
<b>BATTERY</b>								
DC Voltage	36V		72V	96V		72V	96V	
Battery Type & Number	12V/7AH x 03			12V/7AH x 08			12V/7AH x 08	
Backup Time (50% Load)	12 Min.			19 Min.			16 Min.	
Backup Time (Full Load)	05 Min.			08 Min.			05 Min.	
Charge Current	6 A	1 A	6 A	6 A	1 A	6 A	6 A	1 A
Typical Recharge Time	8 Hours (90% of full capacity)							
<b>SYSTEM FEATURES</b>								
LCD Indication	Input Voltage/Frequency, Output Voltage/Frequency, Battery Voltage, 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	Normal Operation, Bypass, Abnormal, Fault and Battery Mode							
Alarms / Protection	Batt. Low, DC High, Inverter Under/Over Voltage, UPS Over Load, Short Circuit, Fan Failure and UPS Fault.							
Overload Capability	$\leq$ 125% for 10 min, >125-150% for 1 min, >150% for 200 ms							
Transfer Time/Surge Suppression	AC to Battery : 0ms, Inverter to Bypass : 4ms (Typical) ; Filter with surge suppression Protection TVSS.							
<b>ENVIRONMENTAL</b>								
Temperature	Operating: 0~45°C, Storage: -10°C ~ 55°C							
Humidity / Altitude	0~95% RH Non-condensing / <1500 M							
Noise	Low Audible Noise Level							
<b>PHYSICAL</b>								
Dimension WxDxH (mm)	144x400x215			192x469x399				
Weight (Kg)	5.6	11.2	10.8	11.2	26.7	10.8	11.2	26.7
<b>STANDARDS</b>								
Quality	ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, RoHS							
Safety	IEC/EN62040-1							
EMC / Performance	IEC/EN62040-2; IEC/EN62040-3, Complying to CE							
<b>COMMUNICATION INTERFACE</b>								
Standard	RS-232							
Optional	SNMP / ModBus / Dry Contact / USB / RS-485							
Monitoring Software	NetAgent Utility v5.8 / View Power / UPSilon 2000 / Muser 4000							

\*Specifications are subject to change without prior notice.

