

MF Series 1~3kVA

Application:

For all kind of ADP Machines



Control Panel
up to 50 Items Set by LCD



Features:

- DSP Controlled, 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 Compatible
- High Reliability Digital Control
- Auto-start Function
- ECO Mode & CMS Software integration option

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)



2 / 3 kVA

1 kVA



Technical Specification of MF Series Internal Battery Model 1~3kVA

Model	MF1101B3	MF1102B8	MF1103B8
Capacity (VA)	1000	2000	3000
INPUT			
Nominal Voltage	220V/230V/240V AC (1Ph+N+PE, 3 Wire)		
Operating Voltage Range	100V~300V AC (Load Dependent)		
Operating Frequency Range	50 / 60 Hz ± 10% (Auto Sensing)		
Power Factor	≥0.99		
OUTPUT			
Output Voltage/Power Factor	220V / 230V / 240V AC / ±1% / 0.8 Std., 0.9 Optional		
Output Frequency	Auto Sensing 50 / 60 Hz ± 1~10% Sync Mode (Configurable), 50/60 Hz ± 0.1 Hz Battery Mode		
Harmonic Distortion (THDv)	≤1%		
Crest Factor	3:1		
Efficiency	upto 94.0% Dual Conversion Mode, 99.0% ECO Mode		
BATTERY			
DC Voltage	36V	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	1 A	1 A	1 A
Typical Recharge Time		4-5 Hours (90% of full capacity)	
SYSTEM FEATURES			
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	≤ 125% for 10 min, /125-150% for 1 min, >150% for 200 ms		
Transfer Time	AC to Battery : 0ms, Inverter to Bypass : 4ms (Typical)		
ENVIRONMENTAL			
Temperature	Operating: 0~50°C*, Storage: -15°C ~ 60°C		
Humidity / Altitude	0~95% RH Non-condensing / <1500 M (No de-rating)		
Noise	≤ 45dBA		
PHYSICAL			
Dimension WxDxH (mm)	143x 415x 215	190x 490x 335	
Weight (Kg)	11.2	26.7	26.7
STANDARDS			
Quality	ISO 9001, ISO 14001, ISO 27001, ISO 45001, ISO 50001, RoHS		
Safety	IEC/EN62040-1		
EMC / Performance	IEC/EN62040-2; IEC/EN62040-3, Complying to CE		
COMMUNICATION INTERFACE			
Standard	RS-232		
Optional	SNMP / ModBus / Dry Contact / USB / RS-485		
Monitoring Software	BPE Cyber / UPSilon 2000 / Muser 5000		

*Conditions apply.

Specifications are subject to change without prior notice.

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