

MF Series

1~3kVA

1:1 Phase

PF: 0.8

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)
10. Maintenance Switch
11. Parallel Slot
12. Terminal Block (Input, Output & Battery)



2 / 3 kVA

1 kVA



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

Model	MF1101B3	MF1102L4	MF1102	MF1102L8	MF1103L6	MF1103L8
Capacity (VA)	1 kVA	2 kVA			3 kVA	
INPUT						
Nominal Voltage	220V/230V/240V AC (1Ph+N+PE, 3 Wire)					
Operating Voltage Range	110V~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	48V	72V	96V	72V	96V
Charge Current	6.5 A Configurable					
Battery type	SMF VRLA / Lithium-ion					
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)	144x 400x 215					192x 469x 399
Weight (Kg)	5.6	10.7	10.8	11.2	10.8	11.2
STANDARDS						
Quality	ISO 9001, ISO 14001, ISO 27001, ISO 45001, ISO 50001, BIS, 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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