

MF Series

1~3kVA

Application:

For all kind of ADP Machines



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 manual bypass
- 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 & cold start feature
- 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)



Technical Specifications 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 \pm 10% (Auto Sensing)		
Power Factor	>0.99		
OUTPUT			
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)	\leq 1%		
Crest Factor	3:1		
Efficiency	94.0% Dual Conversion Mode, 99.0% ECO Mode		
BATTERY			
DC Voltage	36V	96V	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	\leq 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 / <1500m No derating		
Noise	\leq 45dBA		
PHYSICAL			
Dimension WxDxH (mm)	144x400x215	192x469x399	
Weight (Kg)	11.2	26.7	26.7
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	NetAgent Utility v5.8 / View Power / UPSilon 2000 / Muser 4000		

*Conditions apply.

Specifications are subject to change without prior notice.