

# MF Series

1~10kVA

1:1 Phase

PF: 0.8

## Applications:

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.
- CVCF (Constant Voltage Constant Frequency)
- LC 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
- Lithium-ion Battery Compatible
- 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)
10. Maintenance Switch
11. Parallel Slot
12. Terminal Block (Input, Output & Battery)



| MODEL                       | MF1101L3                                                                                                                                                                                                        | MF1102L4    | MF1102 | MF1102L8 | MF1103L6 | MF1103L8 | MF1105L16            | MF1106L16 | MF1110L16 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|----------|----------|----------|----------------------|-----------|-----------|
| Capacity                    | 1 kVA                                                                                                                                                                                                           | 2 kVA       |        |          | 3 kVA    |          | 5 kVA                | 6 kVA     | 10 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                  | 94.0% Dual Conversion Mode, 99.0% ECO Mode                                                                                                                                                                      |             |        |          |          |          |                      |           |           |
| BATTERY                     |                                                                                                                                                                                                                 |             |        |          |          |          |                      |           |           |
| DC Voltage                  | 36V                                                                                                                                                                                                             | 48V         | 72V    | 96V      | 72V      | 96V      | 48V DC / 192-240V DC |           |           |
| Charge Current              | 6.5 A Configurable                                                                                                                                                                                              |             |        |          |          |          |                      |           |           |
| 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                                                                                                                                                                               |             |        |          |          |          |                      |           |           |
| Noise                       | ≤ 45dBA                                                                                                                                                                                                         |             |        |          |          |          |                      |           |           |
| PHYSICAL                    |                                                                                                                                                                                                                 |             |        |          |          |          |                      |           |           |
| Dimension WxDxH (mm)        | 144x400x215                                                                                                                                                                                                     | 192x469x399 |        |          |          |          | 220x481x438          |           |           |
| Weight (Kg)                 | 5.6                                                                                                                                                                                                             | 10.7        | 10.8   | 11.2     | 10.8     | 11.2     | 17                   | 18        | 20        |
| 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 / UPSilon 2000                                                                                                                                                                            |             |        |          |          |          |                      |           |           |

\*Conditions apply.

Specifications are subject to change without prior notice.

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POWER IS ON

