

## MF Series 1 kVA

### 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 1kVA

| MODEL                          | MF1101L3                                                                                                                                                                                                        |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity (VA)                  | 1000                                                                                                                                                                                                            |
| <b>INPUT</b>                   |                                                                                                                                                                                                                 |
| 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                                                                                                                                                                                                           |
| <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)     | $\leq$ 1%                                                                                                                                                                                                       |
| Crest Factor                   | 3:1                                                                                                                                                                                                             |
| Efficiency                     | 94.0% Dual Conversion Mode, 99.0% ECO Mode                                                                                                                                                                      |
| <b>BATTERY</b>                 |                                                                                                                                                                                                                 |
| DC Voltage                     | 96V                                                                                                                                                                                                             |
| Battery Type & Number          | 12V/9AH x 08                                                                                                                                                                                                    |
| Charge Current                 | 1 A                                                                                                                                                                                                             |
| Typical Recharge Time          | 4-5 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                  | AC to Battery : 0ms, Inverter to Bypass : 4ms (Typical)                                                                                                                                                         |
| <b>ENVIRONMENTAL</b>           |                                                                                                                                                                                                                 |
| Temperature                    | Operating: 0~50°C*, Storage: -15°C ~ 60°C                                                                                                                                                                       |
| Humidity / Altitude            | 0~95% RH Non-condensing / <1500m No derating                                                                                                                                                                    |
| Noise                          | $\leq$ 45dBA                                                                                                                                                                                                    |
| <b>PHYSICAL</b>                |                                                                                                                                                                                                                 |
| Dimension WxDxH (mm)           | 192x469x399                                                                                                                                                                                                     |
| Weight (Kg)                    | 28.1                                                                                                                                                                                                            |
| <b>STANDARDS</b>               |                                                                                                                                                                                                                 |
| 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                                                                                                                                                                   |
| <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                                                                                                                                                  |

\*Conditions apply.  
 Specifications are subject to change without prior notice.

## Best Power Equipments India Pvt. Ltd.

**Corporate Office:** G-240, Sector-63, Distt. Gautam Buddh Nagar, Noida-201307 UP  
**Registered Office:** 812A, Shakuntala Building, 59, Nehru Place, New Delhi-110019  
 PH: +91 120 4637000-0029 | Mobile: +91 9311995859 | Email: crm@bpe.co.in  
 support@bpeeservices.com | Toll Free: 1800 103 1247 | Website: [www.bpee.com](http://www.bpee.com)