



# Online UPS 1Phase Out

## MF Series

1~3KVA

### Application:

Server and Other Networking Equipments



Control Panel  
Up to 50 items set by LCD

### Features:

- High frequency and double conversion online technology
- Fully digitized microprocessor control
- Wide input voltage range
- Highly Efficient upto 91%
- High input power factor 0.99
- LCD Display
- Cold Start
- IGBT both Inverter & Rectifier stage
- Advanced battery management
- Automatic battery charge in UPS OFF mode
- Short circuit & overload protection
- EMI/RFI noise filter
- Smart RS232 communication with monitoring software
- Optional SNMP card slot
- High reliability digital control
- Full protection function



USB



SNMP



Drycontact card



Mini dry  
contact card



Rear Panel

Terminal Block

## Technical Specifications

MODEL	MF1101L3	MF1101B3	MF1102L8	MF1102B8	MF1103L8	MF1103B8
Capacity (VA)	1000		2000		3000	
<b>INPUT</b>						
Nominal voltage	220 / 230 / 240Vac					
Operating voltage range	110-300 VAC (Based on load at 50%), 160-300VAC (based on load at 100%)					
Operating frequency range	40~70 HZ (auto sensing)					
Power factor	≥0.99					
<b>OUTPUT</b>						
Output voltage/Power Factor	220 / 230 / 240Vac±2% / 0.9 Std.					
Output frequency	50Hz/60Hz ±5%, Synchronized with the utility on AC mode; 50Hz/60Hz±0.2% on Battery mode					
Harmonic distortion (THDv)	<2% (linear load), <5% (Non Linear Load)					
Crest factor	3:1 (max)					
Efficiency	>91%					
<b>BATTERY</b>						
DC voltage	36Vdc			96Vdc		
Battery type & number	5MF ,VRLA	12V/7Ah×3	5MF ,VRLA	12V/7Ah×8	5MF ,VRLA	12V/7Ah×8
Backup time (50% load)		12min		19min		16min
Backup time (full load)		5min		8min		5min
Charge Current (standard unit)	1A					
Charge Current (long run unit)	6A		6A		6A	
Typical recharge time	8 hours (to 90% of full capacity)					
Transient response	≤3% for 100% Non Linear Load					
<b>SYSTEM FEATURES</b>						
LCD indication	1. Input voltage/frequency, battery voltage, output voltage/ percent, frequency, load watt/VA and percent, inverter temperature, battery level 2. Operation mode such as "on line", "on batt", or "on bypass", abnormal operation , discharge time & fault					
LED indication	1. Green LED for normal operation 2. Yellow LED for warning condition 3. Red LED for abnormal operation 4. Amber LED for normal battery mode					
Overload capability	1. >110%, 30s turn to bypass mode; 2. >150%, 300ms turn to bypass mode					
Transfer time	Between AC Mode and Battery Mode : 0ms Between AC Mode and Bypass Mode : 4ms (typical value 2.5ms)					
Communication interface	RS232; 5NMP (optional), support windows, Novell, Linux & free BSD					
<b>ENVIRONMENTAL</b>						
Operating temperature	0 ~ 40°C					
Storage temperature	-25 ~ 55°C					
Humidity range	0% ~ 95% (non-condensing)					
Altitude	<1500m					
Noise level	<45dB					
<b>PHYSICAL</b>						
Dimension W×D×H (mm)	144x421x215		191x478x339		191x478x339	
Packing W×D×H (mm)	258x524x334		332x603x482		332x603x482	
Net/Shipping weight (kg) (Standard unit)	14/16		33/35		34/36	
Net/Shipping weight (kg) (Long run unit)	7.5/9		14/16		15/17	
<b>STANDARDS</b>						
Safety	IEC/EN62040-1; IEC/EN60950-1					
EMC	EMI/RFI Filter , IEC/EN62040-2; IEC61000-4-2; IEC61000-4-3; IEC61000-4-4; IEC61000-4-5; IEC61000-4-6; IEC61000-4-8					

- SPD Optional as per IEEE 1100 - 2005, with 10 kVA surge current <0.5ns response time
- Optional programmable Power outlet for independent control of load segment

Specifications are subject to change without prior notice.



### Best Power Equipments (I) Pvt. Ltd.

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