S-POWER®

ON-LINE UPS 1Phase Out

MF Series

1 - 3 KVA

Application:

Server and Medical Equipments

TECHNOLOGY IGBT² SAVE ENERGY

TLC CE UL SGS SGS

TECHNOLOGY IGBT² SAVE ENERGY

Control Panel
Up to 50 items set by LCD

USB

SNMP

Drycontact card

Rear Panel

Terminal Block

Mini dry contact card

Features:

- High frequency and Triple conversion online technology
- Conversion Type AC-DC, DC-DC, DC-AC
- Fully DSP control
- Wide input voltage range
- Highly Efficient upto 93%
- High input.power factor 0.99
- LCD Display
- Cold Start
- IGBT both Inverter & Rectfier 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 reliabillity digital control
- Full protection function

Technical Specification

MODEL	MF1101L2/L3	MF1101B3	MF1102L4/L8	MF1102B8	MF1103L6/L8	MF1103B8
Capacity (VA)	1000		2000		3000	
INPUT						
Nominal Voltage	220 / 230 / 240Vac					
Operating voltage range	110-300Vac (Based on load at 50%), 160-280VAC(based on load at 100%)					
Operating frequency range	46~54Hz±0.5Hz or 56~64Hz±0.5Hz (auto sensing					
Power factor	≥0.99					
OUTPUT						
Output voltage/Power factor	220/230 / 240Vac±2% / 0.8 Std. / 0.9 (Optional)					
Output frequency	50Hz/60Hz±0.5% Sychronized 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	>93%					
BATTERY						
DC Voltage	24/36Vdc		48/72/96Vdc			
Battery type & number	SMF, VRLA	12V/7Ahx3	SMF, VRLA	12V/7Ahx8	SMF, VRLA	12V/7Ahx8
Back up Time (50% load)		12min		19min		16min
Back up Time (Full load)		5min		8min		5min
Charge Current (standard unit)	1A					
Charge Current (long run unit)	6A / (12A Optional)		6A / (12A Optional)		6A / (12A Optional)	
Typical recharge time	8 Hours(to 90% of full capacity)					
Transient responnse	<3% for 100% Non Linear Load					
SYSTEM FEATURES						
LCD indication	1. Input voltage/frequency, battery voltage, output voltage/frequency, load watt/VA and percent, inverter temperature 2. Operation mode such as "on line", "on batt", or "or bypass"					
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 ; SNMP (optional)					
ENVIRONMENTAL						
Operating temperature	0~40 C					
Storage Temperature	-25~55 C					
Humidity range	0%~95% (non-condensing)					
Altitude	<1500m					
Noise Level	<45dB					
PHYSICAL						
Dimension W×D×H (mm)	144×421×215		191×478×339		191×478×339	
Packing W×D×H (mm)	258×524×334		332×603×482		332×603×482	
Net/Shipping Weight (kg) (Standard run unit)	14/16		33/35		34/36	
Net/Shipping Weight (kg) (Long run unit)	7.5/9		14/16		15/17	
STANDARDS						
Safety	IEC/EN62040-1; IEC/EN60950-1					
EMC	EMC 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 - 2002, with 10 KVA Surge current <0-5ns response time
Specifications are subject to change without prior notice

Mfd. by :

S-Power Science & Technology Co. Ltd
- Address: Via 9 Marzo, 3 52020 Arezzo ITALY
- Email: info@spowerstech.com
- Website: www.spowerstech.com (English)

Distributor :