

MF Series

1:1 Phase

PF: 1.0

Applications:

Server and Others Networking Equipments



Features:

- True Online Double Conversion UPS with DSP Controlled Sine Wave
- IGBT, Both Inverter & Rectifier
- High Input Power Factor 0.99
- High Output Power Factor 1 (Unity)
- Wide Input Voltage Range: 110~300V AC
- Wide Input Frequency Range (50Hz: 45 ~ 55Hz/60Hz: 54~66Hz)
- Generator Compatibility
- Supports Economic Operation (ECO) Mode
- Static Bypass
- Auto Start and Cold Start
- Isolation Transformer Compatibility
- Fast Charging : Charger capacity 30A (Default)
- Li-ion/SMF Battery Compatibility



Model	MF1105L4	MF1106L4
Capacity	2.5kVA / 2.5kW	5kVA / 5kW
INPUT		
Nominal Voltage	230V AC (1Ph+N+PE, 3 Wire)	
Operating Voltage Range	110V~300V AC Load Dependent	
Operating Frequency Range	50 / 60 Hz \pm 10% (Auto Sensing)	
Power Factor	>0.99	
OUTPUT		
Output Voltage/Power Factor	230V \pm 5% / Unity	
Output Frequency	50/60 Hz \pm 0.1 Hz Battery Mode	
Harmonic Distortion (THDv)	<3%	
Crest Factor	3:1	
Efficiency	94.0% Dual Conversion Mode, 99% ECO Mode	
BATTERY		
DC Voltage	48V DC	
Charge Current	Default : 30 A, Max : 60 A (Configurable)	
Typical Recharge Time	2-3 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	105-150% for 10s, >150% for 5s	
Transfer Time	AC to Battery : 0ms, Inverter to Bypass : 4ms (Typical)	
ENVIRONMENTAL		
Temperature	Operating: 0~50°C*, Storage: -10°C ~ 55°C	
Humidity / Altitude	0~95% RH Non-condensing / <1500 M	
Noise	<55dBA	
PHYSICAL		
Dimension WxDxH (mm)	190x470x335 (Max)	
Weight (Without Battery)	17 Kg	
STANDARDS		
Quality	ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, RoHS	
Safety / EMC / Performance	IEC/EN62040-1; IEC/EN62040-2; IEC/EN62040-3, Complying to CE	
COMMUNICATION INTERFACE		
Standard	RS-232, USB (Optional)	
LITHIUM-ION BATTERY (OPTIONAL)		
Chemistry	LFP	
Operating Temperature	0~55°C	
Back-up Time (Minutes)	60 Minutes	
Capacity Required	4.8kWh	
Charge/Discharge Rate	0.5C / 1.0C	

Specifications are subject to change without prior notice.