

MF Series

6~10kVA

1:1 Phase

PF: 0.8

Application:

For all kind of ADP Machines



Control Panel
up to 50 Items Set by LCD



Features:

- DSP Controlled , 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 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 Compatible
- High Reliability Digital Control
- Auto-start Function
- ECO Mode
- Paralleling Capability upto 4 Units.

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)



Technical Specification of MF Series External Battery Model 6~10kVA

Model	MF1105L16	MF1106L16	MF1110L16
Capacity	5 kVA	6 kVA	10 kVA
INPUT			
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 ± 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	upto 94.0% Dual Conversion Mode, 99.0% ECO Mode		
BATTERY			
DC Voltage	192~240V Configurable		
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 (No de-rating)		
Noise	≤ 55dB		
PHYSICAL			
Dimension WxDxH (mm)	144x 400x 215	192x 469x 399	
Weight (Kg)	11.2	26.7	26.7
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	BPE Cyber / UPSilon 2000 / Muser 5000		

*Conditions apply.

Specifications are subject to change without prior notice.

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