



Online UPS 1Phase Out

MF Series

6~20 KVA



Control Panel



Rear Panel



Relay card



SNMP



Parallel module

Features:

- Online double conversion with DSP control
- Input current harmonic: <5%
- Optimization battery group, the quantity of battery: 16/18/20 pieces (optional)
- High output power factor 0.9
- Wide input voltage range: 120~276Vac
- Wide input frequency range (50Hz:45~55Hz/60Hz: 54~66Hz)
- Support generator input
- Support economic(ECO) operation mode
- Self-testing while UPS startup
- Options: SNMP card/ Relay card/ Parallel card
- Cold start

▶ Technical Specifications

MODEL	MF1106L16	MF1106B16	MF1110L16	MF1110B16	MF3110L16	MF3120L16
Capacity (VA)	6000		10000		20000	
INPUT						
Nominal voltage	220/230/240Vac				380/400/415Vac; (3Ph+N+PE)	
Operating voltage range	120 ~ 276Vac				304 ~ 478Vac	
Operating frequency range	50Hz:45~55Hz; 60Hz:54~66Hz(auto sensing)					
Power factor	≥0.99					
Bypass voltage range	Max.voltage: +15%(optional +5%,+10%,+25%) Min.voltage: -45% (optional -20%,-30%) Frequency protection range:±10%					
ECO range	Same as the bypass					
Harmonic distortion (THDi)	<5% (100% linear load)					
Generator input	Support					
OUTPUT						
Rated voltage	220/230/240Vac					
Power factor	0.9 (Standard)					
Voltage regulation	±1%					
Frequency	Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency(optional)				
	Bat. Mode	50/60(±0.2)Hz				
Crest factor	3 : 1					
Harmonic distortion (THDi)	≤2% with linear load, ≤5% with non linear load					
Efficiency	>92%				>93%	
BATTERY						
Battery voltage	192Vdc/ 216 & 240Vdc (Optional)					
Backup Time	Depends on the capacity of external batteries Estimated remaining time displayed on the LCD					
Typical recharge time	6 ~ 8 hours (to 90% of full capacity)					
Charge current	Max.current 6A			Max.current 10A		
SYSTEM FEATURES						
Transfer time	Utility to Battery : 0ms; Utility to bypass: 0ms					
Overload (Line Mode)	Loads≤110%: last 60min, ≤125%: last 10 min, ≤150%: last 1 min, ≥150% shut down UPS immediately					
Short circuit	Hold Whole System					
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately					
Low battery voltage	Alarm and Switch off					
Self-diagnostics	Upon Power On and Software Control					
EPO	Shut Down UPS immediately					
Battery	Advanced Battery Management					
Noise Suppression	Complies with EN62040-2					
Audible & Visual alarms	Line Failure, Battery Low, Overload, System Fault					
LED & LCD display	Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault					
LCD display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time					
Communication interface	USB, RS485, SNMP card, Parallel card, Relay card (optional)					
ENVIRONMENTAL						
Operating temperature	0°C ~ 40°C					
Storage temperature	-25°C ~ 55°C					
Humidity range	0 ~ 95% (non-condensing)					
Altitude	< 1500m					
Noise level	<55dB					
PHYSICAL						
Dimension WxDxH (mm)	220x481x438	250x500x650	220x481x438	250x500x650	250x502x616	
Net weight (kg)	18 Kg	65 Kg	20 Kg	70 Kg	35 Kg	40 Kg
STANDARDS						
Safety	IEC/EN62040-1, IEC/EN60950-1					
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8					

Specifications are subject to change without prior notice.



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