

MF Series

Rack Mount UPS

5 / 6 / 10 / 15 / 20KVA

1:1 Phase & 3:1 Phase



Rating 6KVA Inside Battery 16x7Ah



Features:

- True Online double conversion with PWM IGBT inverter technology with Pure Sine Wave
- Fully digitized microprocessor control
- IGBT based Rectifier and Inverter
- Wide input range and Inbuilt Bypass
- LCD display and Cold Start
- Unique design for internal battery 16*7AH / 9AH for 5 & 6KVA
- 5KVA & 6KVA are having unity output Power factor
- Advanced battery management
- Isolation Transformer Compatible
- Automatic battery charging in UPS off mode
- Lightning and surge protection
- Short circuit and overload protection
- Fan speed adjusted by load automatically
- Network / Fax / Modem surge protection
- Optional extension battery pack
- EMI / RFI and Noise filter
- EPO function
- Parallel capacity up to 4 Nos., extendable 20KVA*4 up to 80KVA

Display :

1. LCD Display
2. LED Indicator
3. On/Off Button
4. Function



(6KVA)

Rear Panel

1. Intelligent Slot / SNMP(Optional)
2. Fan
3. Parallel Port
4. RS232
5. USB (Optional)
6. EPO
7. Bypass
8. Terminal



Parallel Operation, Parallel 4 Units



(20KVA)

▶ Technical Specifications of MF Series Rack Mount UPS 5~20KVA

MODEL	MF1105L16	MF1106B16	MF1110L16	MF3110L20	MF3115L20	MF3120L20
Capacity (KVA)	05	06	10		15	20
INPUT						
Nominal Voltage	220V / 230V / 240V AC (1Ph+N+PE)			380V / 400V / 415V AC (3Ph+N+PE)		
Operating Voltage Range	100V~300V AC Load Dependent			277V~480V AC Load Dependent		
Operating Frequency Range	50 / 60 Hz \pm 20% (Auto Sensing)					
Power Factor	\geq 0.99					
OUTPUT						
Output Voltage / Regulation	220V / 230V / 240V AC \pm 1% (Configurable)					
Output Frequency	Auto Sensing 50 / 60 Hz \pm 1~10% Sync Mode (Configurable), 50/60 Hz \pm 0.1 Hz Battery Mode					
Crest Factor / Power Factor	3:1 / 0.9 / 1.0 (Configurable)					
Harmonic Distortion (THDv)	\leq 2% with linear load; \leq 5% with non-linear load					
Overload	110% for 10min, >130~150% for 60 Sec, >150% for 200 ms					
Efficiency	Up to 95% Dual Conversion Mode @ Full Load, 99% ECO Mode					
BATTERY						
Charging Voltage	192V DC \pm 1% (Based on 16 Nos. Battery)			273V DC \pm 1% (Based on 20 Nos. Battery)		
Charging Current	6A Max.			4A Max.		
Battery Nos.	16 Nos. (16~20 Nos. Adjustable)**			20 Nos. (18~20 Nos. Adjustable)**		
Typical Recharge Time	8 Hrs. (to 90% of full Capacity)					
SYSTEM FEATURES						
LCD Indication	Input Voltage & Frequency, Output Voltage & Frequency, Battery Voltage & Percent, Load Watt, VA & Percent, Inverter Temperature, Operation Mode Such as "ONLINE", "BYPASS", "ONBATT", "ERROR CODE".					
LED Indication	Normal Operation, Bypass, Inv "ON" / Battery Mode and Fault Indication					
Audible Alarm / Protection	Over Voltage, Under Voltage, Short Circuit, Over Temperature, Battery Mode, Low Battery, Over Charge, Over Load and Fault					
IP Protection	IP 20					
Transfer Time	Zero					
ENVIRONMENTAL						
Temperature	Operating: 0~45°C, Storage: -10°C ~ 55°C					
Humidity / Altitude	0~95% RH Non-condensing / <1500 M					
Noise	< 55 dB @ 1 mtr. Distance					
PHYSICAL						
Dimensions WxDxH (mm)	UPS	444x660x166 (4U), (3U) Optional		443x580x133 (3U), (4U) Optional		438x668x266 (6U)
	Battery Pack	Space for 16x7AH/9AH Intl. Batt.		438x580x133 (3U)		
Net/Shipping Weight (Kg)	8/10	15.5/17.5	8.3/10.3	25/28	10/12	30/33
STANDARDS						
Quality	ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, 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	NetAgent Utility v5.8 / View Power / UPSilon 2000 / Muser 4000					

Specifications are subject to change without prior notice.

** UPS has flexi battery DC Bus, Battery Nos. can be adjusted to 16, 18, 20 Nos.

* Rail-Kit are available according to various size in U and Model No. *** Maximum capacity can be configured upto 80KVA (4 x 20KVA in Parallel Mode).