

MFII Series

10kVA (3:1)

PF: 1.0

Applications:

For all kind of ADP Machines



Features:

- ♦ True Online Double Conversion Topology
- ♦ DSP Controlled Design
- ♦ Pure Sine wave output waveform
- ♦ IGBT based both Rectifier & Inverter
- ♦ Wide Input Voltage Range (228V-480V AC)
- ♦ High Input Power Factor (≥ 0.99)
- ♦ Input Current Harmonic $\leq 3\%$
- ♦ Wide Input Frequency Range
- ♦ High Output Power Factor (Unity, kVA=kW)
- ♦ Optimization Battery Group (192V/216V/240V DC)
- ♦ CVCF Based Charging for long battery life
- ♦ ECO mode for energy saving
- ♦ Self-Testing while UPS Startup
- ♦ Common Battery Bank Operation
- ♦ Static Bypass and Integrated Maintenance Bypass
- ♦ Auto Restart and Cold start function
- ♦ Optional Parallel Compatibility up to 4 units
- ♦ Inbuilt Surge Protection
- ♦ Generator Compatibility



MODEL		MFII3110B16	MFII3110L16
Capacity (kVA/kW)		10 kVA/kW	
Type		Internal Battery	External Battery
INPUT			
Nominal Voltage		380V/400V/415V AC (3P+N+PE)	
Operating Voltage Range		228V~480V AC (Load Dependant)	
Operating Frequency Range		50/60 Hz ± 10% (Auto Sensing)	
Power Factor		≥ 0.99	
Bypass	Voltage	- 40% ~ +15% (Configurable)	
	Frequency	± 5% (Configurable)	
ECO Mode Range		Same as the Bypass (Configurable)	
Generator Input		Compatible	
OUTPUT			
Rated Voltage (Configurable)		220V/230V/240V AC (P+N+PE)	
Power Factor		1.0	
Voltage Regulation		±1%	
Frequency		Auto Sensing 50/60 Hz ± 1~10% Sync Mode (Configurable), 50/60 Hz ± 0.1% Battery Mode	
Crest Factor		3:1	
Overload		≤105% for Continuos, ≤ 125% for 10 Min, ≤ 150% for 60 Sec, ≥ 150% for 200ms	
Harmonic Distortion (THDv)		≤ 1%	
Efficiency		94.0% Dual Conversion Mode, 99.0% ECO Mode	
BATTERY			
Battery Type		SMF VRLA 12V/9Ah	SMF VRLA/Lithium-ion
Battery Voltage		Inbuilt 16 Nos. of 12V/9Ah	192V/216V/240V DC (Configurable), 3-wire
Typical Recharge Time		4-5 Hours to 90% of full Capacity	
Charge Current		1A~6.5A configurable (standard) ; 10A (optional)	
SYSTEM FEATURES			
IP Protection		IP20	
Transfer Time		Zero	
EPO		Shutdown UPS Immediately	
Alarm/Protection		Short Circuit, Input Under/Over Voltage, Over Temperature, Output Over Load, DC Bus Under/Over Voltage, Battery low, Input Surge protection	
LED Indication		Line Mode, Battery Mode, ECO Mode, Bypass Mode, Battery Low, Overload & UPS Fault	
LCD		Input Voltage/Frequency, Output Voltage/Frequency, Load Current, Load Percentage, Battery Voltage, Charging/Discharging Current, Load/Battery Barograph, Temperature, Remaining Battery Backup Time, Load VA/W, Operating mode & Fault mode	
ENVIRONMENTAL			
Temperature		Operating: 0~50°C*, Storage: -15°C ~ 60°C	
Humidity / Altitude		0~95% RH Non-condersing / <1500 M	
Noise		<55dBA	
PHYSICAL			
Dimension WxDxH (mm)		190 x 480 x 750	190 x 480 x 350
Net Weight (Kg)		94	33
STANDARDS			
Quality		ISO 90001, ISO 14001, ISO 27001, ISO 45001, ISO 50001, BIS, RoHS, FCC	
Safety		IEC/EN62040-1; Conformity to IEC / EN	
EMC / Performance		IEC/EN62040-2; IEC/EN62040-3, Complying to CE	
COMMUNICATION INTERFACE			
Standard		RS-232/USB/EPO	
Optional		SNMP/ModBus/Dry Contact/IoT/Wi-fi & Bluetooth monitoring	
Monitoring Software		BPE Cyber / UPSilon 2000 / Muser 2000	

*Conditions apply.

Specifications are subject to change without prior notice.

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