

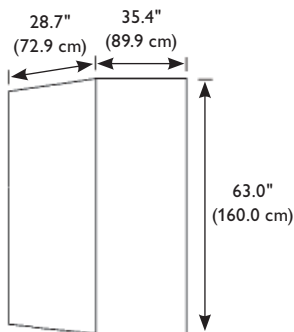
MEPEM Series

75.0 kVA THREE PHASE UPS

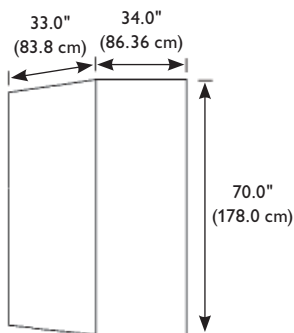
MEPEM75



Electronics Cabinet



Battery Cabinet "C" - Quantity 4



Overall Characteristics

Features: 480 VAC, 3 phase, 3 wire plus ground, input standard, optional voltages available. 480Y/277 or 208Y/120 VAC, 3 phase, 4 wire output standard, optional voltages available. 87% efficiency minimum. Operating temperature range of 18°F (-8°C) to 104°F (40°C). Internal maintenance by-pass, main input breaker and main load disconnect breaker are standard. Double conversion, no interruption. Standard backup time of 90 minutes. Output circuit breakers and normally-off loads are optional (non-HID applications only).

Application: Operates incandescent, magnetic, electronic ballast fluorescent, high power factor compact fluorescent and high intensity discharge (HID) lamp types. Consult factory for compatibility and performance with non-lighting loads and normally off, quartz lighting loads.

Housing: Free standing NEMA 1 enclosure with dead front panel and acid-resistant powder coat finish. Bottom access for conduit entries.

Battery: Maintenance free, sealed lead calcium battery with an expected life up to 10 years, and optimum operating range of 65°F (19°C) to 85°F (30°C).

Electronics/Inverter:

Transient response $\leq 5\%$; recovery time, 20 mS (100% load step). 3:1 crest factor capability. Completely solid-state IGBT PWM inverter. Inverter output distortion $\leq 5\%$ THD (100% non-linear). Inverter output distortion $\leq 3\%$ THD (linear loads). Output voltage regulation $\pm 1\%$ of nominal at full load. Frequency range 60 Hz. Inverter efficiency $\geq 90\%$. Load power factor capability is 0.5 lagging to 0.9 leading. K30 rated output power transformer. Automatic low battery voltage disconnect (LVD).

Electronics/Rectifier: Input voltage range $\pm 15\%$ of nominal. Full load walk-in from 25% to 100% of rated load in 10 seconds. Voltage regulation $\pm 1\%$ maximum for input voltage and DC variations. Ripple voltage $< 2\%$ rms voltage with inverter fully loaded and

battery disconnected. SCR controlled. Rectifier efficiency $\geq 97.7\%$. Static transfer switch overload rating 150% for 1 minute. Transfer time from inverter to utility ≤ 0.5 mS.

Metering/Controls:

A multilingual, alphanumeric display of two lines and 40 characters provides the following information: inverter voltage/frequency/current, DC volts/current, reserve voltage/frequency/current, battery volts/current, load voltage/frequency/current, load percentage/crest factor. Computer interface using volt-free relay contacts. Two RS232 ports for direct two-way communication between the computer and UPS including the UPS monitoring and shutdown option. Relay contacts to drive an optional remote alarm monitor. Self-diagnostics/battery discharge test with user selectable battery test intervals.

Job Information	Type:
Job Name:	
Cat. No.:	
Notes:	

MEPEM Series

75.0 kVA THREE PHASE UPS

Ordering Information

MEPEM	75		
Series	VA Rating	Input/Output	Options

MEPEM = Three Phase UPS System

75 = 75,000

2X2 = 208 Input, 208Y/120 Output
4X2 = 480 Input, 208Y/120 Output
4X4 = 480Y/277 Input, 480Y/277 Output

F = 10% Harmonic Distortion Filter
OCB () = Output Circuit Breakers (qty)
NOL = Normally Off Load*
RAU = Remote Alarm Unit
MSP = MopUPS Pro Monitoring Software Package
FSU = Factory Start-Up

* Consult factory for quartz lamp normally off loads.

UNIT	75 kVA
Electronics Cabinet	1,800 lbs (816 kg)
Battery Cabinets*	2,200 lbs (998 kg)
Battery	10,720 lbs (4,878 kg)
Total System	14,720 lbs (6,691 kg)

* Total weight of four cabinets.

Code Compliance

ETL listed to UL 924.

Warranty

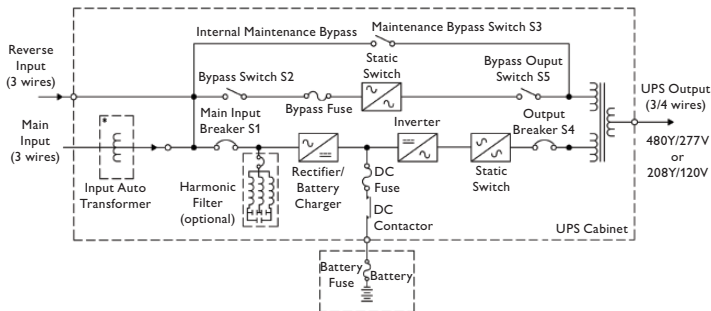
When factory start-up is performed in accordance with published requirements, warranty period extends one year from date of start-up. See Lightolier limited warranty for details.

System Input/Output

SYSTEM RATING	INPUT VOLTAGE	INPUT AMPS ¹	OUTPUT MAX LOAD AMPS PER PHASE		MAXIMUM HEAT REJECTION
			120 V	277 V	
75,000 VA	480	105.1	208 A	90 A	22,100 btu/hr

1) Continuous duty.

System One-Line Diagram



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Job Information	Type:
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