



EATON 93PM EMERGENCY LIGHTING AND POWER UPS TECHNICAL SPECS

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UPS Rating (1.0 power factor)			
kW		20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120	
General Characteristics			
Audible noise		65 dBA at 120 kW	
Altitude (max)		1,500 meters / 4,922 feet	
Scalability		Up to 3 internal power modules External parallel with up to 8 UPSs Interact with the 93PM to take a closer look	
Efficiency		93PM efficiency with ESS- 99% 93PM double-conversion efficiency- up to 97%	
Input Characteristics			
Voltage		480V	
Voltage range		+10% / -10%	
Frequency range		50/60 Hz	
Power factor		≥ .99	
Input current distortion		<3% @ 100% load capacity	
Soft start capability		Yes	
Internal backfeed protection		Yes	
Output Characteristics			
Voltage		480V	
Regulation		±1% steady state	
Inverter		PWM with IGBT Switching	
Voltage THD		< 1% (100% linear load); < 5% (non-linear load)	
Load power factor range		.8 leading to .8 lagging without de-rating	
Heat dissipation (BTU/Hr x 1000/Hr)		20 kW, 480V: 2.55 30 kW, 480V: 3.58 40 kW, 480V: 4.56 50 kW, 480V: 5.70 60 kW, 480V: 7.16 70 kW, 480V: 8.36	80 kW, 480V: 9.12 90 kW, 480V: 10.26 100 kW, 480V: 11.40 110 kW, 480V: 12.54 120 kW, 480V: 13.68
Battery			
Battery type		VRLA	
Battery voltage		480V	
Charging method		ABM or float technology	
Dimensions and Weights			
	Height (mm/inches)	Width (mm/inches)	Depth (mm/inches)
93PM Emergency Lighting UPS	1880/74	559/22	1067/42
Serviceability			
Back/side against wall installation		Standard, front access only	

Certification	
Safety	UL 924 Emergency Lighting and Power
EMC	FCC Part 15 Subpart B Class A
Surge	IEC 61000-4-5
Optional line and match accessories	
External slim maintenance bypass	
PredictPulse remote monitoring service	
24x7 remote monitoring of UPS and battery alarms, online dashboard for real-time updates, mobile app for alarms and monthly report. PredictPulse requires the PXGX-UPS Card and Environmental Monitoring Probe	
Communication Options	
The following connectivity options can be installed at any time:	Power Xpert Gateway Mini-slot communication card Industrial relay card

Due to continuing improvements, specifications are subject to change without notice.



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