



EATON 93PM UPS TECHNICAL SPECS



Technical Specs	93PM 480V	93PM 208/220V
UPS Rating (1.0 power factor)		
kW	20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 250, 300, 350, 400 optional internal redundancy	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 160, 165, 170, 175, 180, 185, 190, 195, 200 optional internal redundancy
General Characteristics		
Audible noise	65 dBA at 200 kW, 76 dBA at 400 kW	
Altitude (max)	1,500 meters / 4,922 feet	
Scalability	Up to 8 internal power modules External parallel with up to 8 UPSs	Up to 10 internal power modules External parallel with up to 4 UPSs (400 kW max)
Efficiency	93PM efficiency with ESS- up to 99% 93PM double-conversion efficiency- up to 97%	
Input Characteristics		
Voltage	480 3-phase, 3-wire or 4-wire (208 or 220 3-phase 3-wire with IAC-D)	208 or 220 3-phase 4-wire
Voltage range	+10% / -15%	+15% / -15% at 208V +10% / -15% at 220V
Frequency range	50/60 Hz	50/60 Hz
Power factor	> .99	> .99
Input current distortion	≤3.5% @ 100% load capacity	≤3.5% @ 100% load capacity
Soft start capability	Yes	Yes
Backfeed protection	Internal contactor	Internal detection with external shunt trip protection
Output Characteristics		
Voltage	480 3-phase, 3-wire or 4-wire (208V or 220V 3-phase 3-wire or 4-wire with IAC-D)	208V or 220V 3-phase 3-wire or 4-wire
Regulation	±1% steady state	±1% steady state
Inverter	PWM with IGBT Switching	PWM with IGBT Switching
Voltage THD	< 1% (100% linear load); < 5% (non-linear load)	< 1.6% (100% linear load) < 5% (non-linear load)
Load power factor range	Unity with the ability to support 0.8 leading to 0.8 lagging without de-rating	Unity with the ability to support 0.8 leading to 0.8 lagging without de-rating
Heat dissipation (BTU/Hr x 1000/Hr)	20 kW, 2.55 30 kW, 3.58 40 kW, 4.56 50 kW, 5.70 60 kW, 7.16 70 kW, 8.36 80 kW, 9.12 90 kW, 10.26 100 kW, 11.40 110 kW, 12.54 120 kW, 13.68 130 kW, 14.82 140 kW, 15.96 150 kW, 17.10 160 kW, 18.24 170 kW, 19.38 180 kW, 20.52	10 kW, 0.9 15 kW, 1.35 20 kW, 1.8 25 kW, 2.24 30 kW, 2.69 35 kW, 3.14 40 kW, 3.59 45 kW, 4.04 50 kW, 4.49 55 kW, 4.94 60 kW, 5.39 65 kW, 5.83 70 kW, 6.28 75 kW, 6.73 80 kW, 7.18 85 kW, 7.63 90 kW, 8.08

	190 kW, 21.66 200 kW, 22.80 250 kW, 28.50 300 kW, 34.20 350 kW, 39.90 400 kW, 45.60	95 kW, 8.53 100 kW, 8.98 105 kW, 9.42 110 kW, 9.87 115 kW, 10.32 120 kW, 10.77 125 kW, 11.22 130 kW, 11.67 135 kW, 12.12 140 kW, 12.57 145 kW, 13.01 150 kW, 13.46 155 kW, 13.91 160 kW, 14.36 165 kW, 14.81 170 kW, 15.26 175 kW, 15.71 180 kW, 16.16 185 kW, 16.6 190 kW, 17.05 195 kW, 17.5 200 kW, 17.95
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Battery

Battery type	VRLA, Wet Cell, Lithium-ion	
Battery voltage	432V (3-wire systems only), 480V	480V
Charging method	ABM or float technology	ABM or float technology

Dimensions and Weights

	Height (mm/inches)	Width (mm/inches)	Depth (mm/inches)
93PM UPS - 20-150 kW (480V) and 10-120 kW (208/220V)	1880/74	559/22	1067/42
93PM UPS - 160-200 kW (480V)	1880/74	813/32	1067/42
93PM UPS - 125-160 kW (208-220V)	1880/74	870/34.25	1067/42
93PM UPS - 165-200 kW (208-220V)	1880/74	1100/43.3	1067/42
93PM UPS - 250-400 kW (480V)	1880/74	1623/64	1067/42

Serviceability

Back/side against wall installation	Standard, front access only
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Certification

Safety	UL 1778, cULus, UL 924 Emergency, UL 924 Auxiliary	UL1778, cULus
EMC	FCC Part 15 Subpart B Class A	
Surge	IEC 61000-4-5	

Optional line and match accessories

- External slim maintenance bypass - Integrated distribution cabinet (with input and output transformer options) - Integrated power distribution cabinet - Integrated parallel tie cabinet - Integrated battery cabinet (small and large) - Wall-mounted or floor mounted bypass - Lithium battery cabinet		
UL 924 certification	The 93PM meets the strict standards for UL 924 compliance for emergency lighting applications when ordered with an emergency lighting SKU. For more information, visit Eaton.com/UL924UPS .	Pending

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
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Communication Options

The following connectivity options	Power Xpert Gateway Mini-slot communication card Industrial relay card
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can be installed at any time:	
Intelligent Power Software (IPP/IPM)	Eaton's Intelligent Power Manager software enables you to: • Remotely monitor and manage multiple devices across your network from a single interface; this can be integrated into an already existing platform, such as VMware, Microsoft or Citrix • Measure power consumption and kWh to calculate power usage effectiveness • Trigger load shedding of lesser priority server workloads to extend battery run time in a virtualized environment. • Trigger workload transfer to disaster recovery site with no loss of data, using VMware's Site Recovery Manager. Eaton's Intelligent Power Protector software enables you to: • Reboot hung-up machines through watchdog functionality • Avoid data loss by automating graceful shutdown of machines during extended power outage • Maximize uptime with redundancy capabilities for dual-cord servers

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



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