



Eaton 93PM 50 kW UPS

Efficient. Scalable. Innovative.

The Eaton® 93PM UPS combines unprecedented efficiency and reliability with an eye-catching design. A space-saving, scalable and flexible device that's as easy to deploy as it is to manage, it's the perfect three-phase white or grey space solution for today's data center.

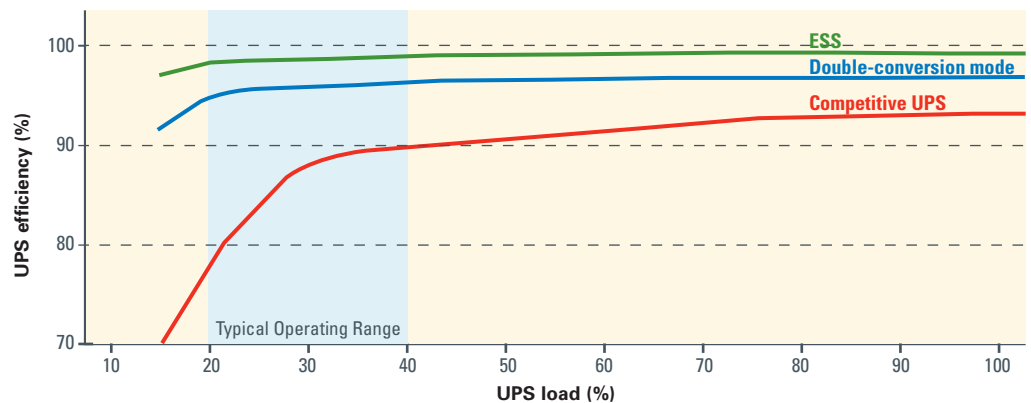
Lowest TCO (total cost of ownership)

- Conserve valuable data center floor space with the compact footprint, internal battery back-up and optional internal maintenance bypass
- Grow effortlessly with the vertical scalability, reducing cost and unexpected future growth risks
- Reduce power and cooling OPEX through industry-leading energy efficiency
 - 99 percent efficiency with Energy Saver System (ESS)
 - Up to 97 percent efficiency in double-conversion mode

Easy deployment

- Provides flexible configurability, maximizing deployment flexibility

Eaton 93PM efficiency in double-conversion and ESS



Powering Business Worldwide

Easy management

- Track statistics on energy savings, battery time and outages, profile your load and much more with the friendly graphical LCD touchscreen interface
- View system status from a distance with the green/yellow/red LED light bars

Advanced IT integration

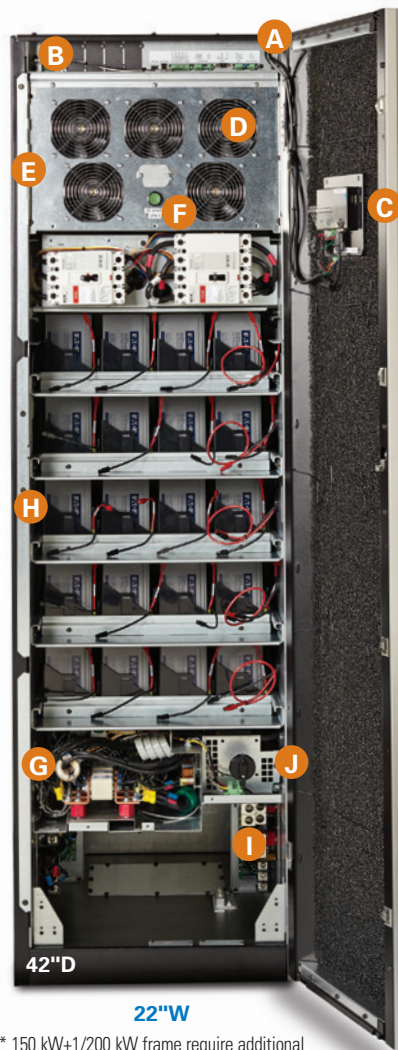
- Supports optional communication cards that allow remote access via the HTTP(S), SNMP, MODBUS TCP/IP, Modbus RTU and BACnet IP protocols
- Manage your power devices in your physical or virtual environment with Eaton's Power Xpert® software and Intelligent Power™ Software Suite
- Increase uptime through 24x7 remote monitoring and reporting capabilities—Eaton's PredictPulse™ remote monitoring service alerts service technicians to take necessary measures when a problem is detected and gives customers peace of mind that Eaton has eyes on their power infrastructure equipment at all times; Learn more at Eaton.com/PredictPulse

The 93PM ESS energy cost savings pay for the UPS in less than 3 years. Calculate your 93PM savings with ESS at Eaton.com/ESS.

The functional core of the 93PM UPS

- A Top cable entry**
Comes with sidecar/maintenance bypass options (sidecar option is required for top cable entry)
- B Communications and connectivity**
 - Built-in device and host USB
 - Five alarm inputs and dedicated EPO
 - Alarm relay output
 - Four communication slots
- C Color touchscreen LCD interface**
- D Serviceable redundant fan assembly**
- E Replaceable power modules**
(50 kW) with independent control and power
- F Soft start controls**
- G Static switch assembly**
(independent power and control)
- H Internal battery strings**
with flexible runtime options
- I Input/output connections**
- J Optional internal rotary maintenance bypass switch**

74"H



42"D

22"W

* 150 kW+1/200 kW frame require additional 10 inches width for input/output connections.

Open front view of the unit

Front view



- 99% ESS efficiency
- 97% double-conversion efficiency

Eaton 93PM UPS technical specifications*

Power modules for 50 kW frame

Power offering (kW)	20, 30, 40, 50 kW with optional internal N+1 redundancy
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General characteristics

Efficiency in Energy Saver System (ESS)	99%
Efficiency in double-conversion mode	Up to 97%
Parallel capability	Four distributed

Input characteristics

Voltage	480V (208V with IAC-D)
Voltage range	+10% / -15%
Frequency range	50/60 Hz
Power factor	> .99
Input current distortion	< 3% @ 100% load capacity

Battery

Battery voltage	432V, 480V
Charging method	ABM® or float technology

Output

Voltage	480V (208V with IAC-D)
Regulation	±1% steady state
Voltage THD	<1% (100% linear load); <5% (non-linear load)
Load power factor range	.8 leading to .8 lagging without de-rating

Certification

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

Optional accessories

- External slim maintenance bypass
- Integrated distribution cabinet (with output transformer options)
- Integrated parallel tie cabinets
- Integrated battery cabinet (small and large)

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

*Due to continued improvements, specifications are subject to change.

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