

Product brochure

20–50 kW



Eaton 93PM 50 kW UPS

Efficient. Scalable. Innovative.

The Eaton® 93PM UPS combines 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.

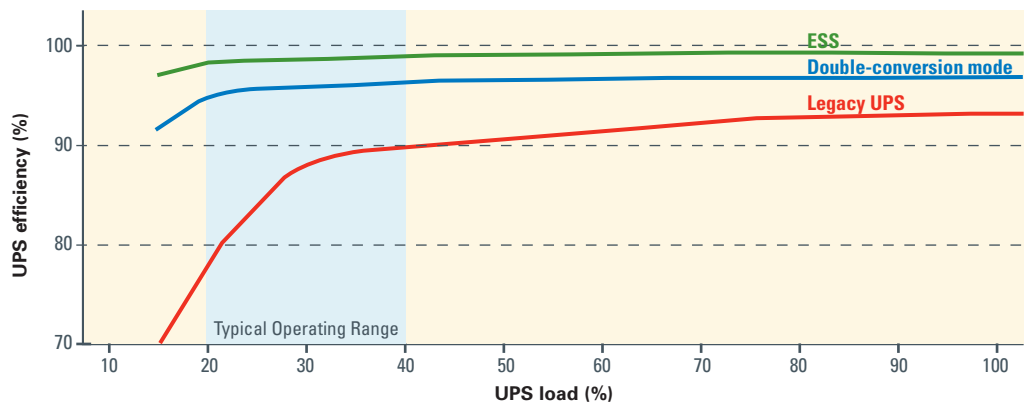
Lowest TCO (total cost of ownership)

- 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

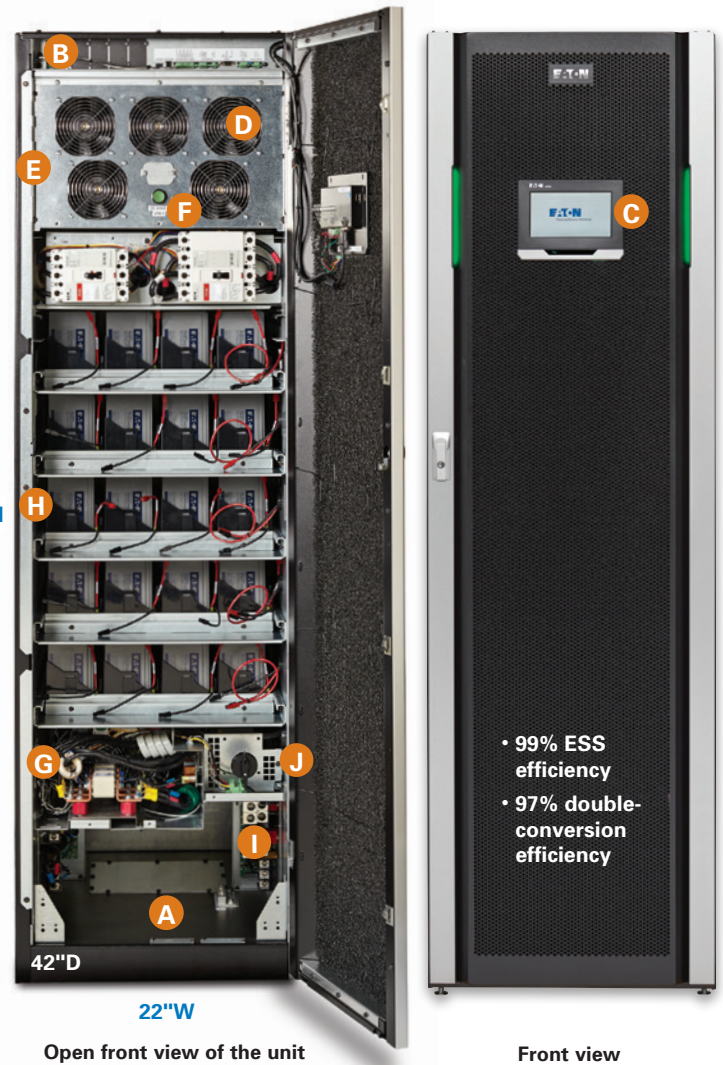
- Supports optional communication cards that allow remote access via the HTTP(S), SNMP, MODBUS TCP/IP, Modbus RTU and BACnet IP protocols
- Manage your power devices in your physical or virtual environment with Eaton's Power Xpert® software and Intelligent Power™ Software Suite
- Increase uptime through 24x7 remote monitoring and reporting capabilities using Eaton's PredictPulse™ service that alerts technicians during critical events and results in faster resolutions when a problem is detected; 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 Bottom cable entry**
Bottom cable entry is standard with top cable entry available via optional sidecar
- 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 Swappable power modules (50 kW)**
with independent control and power
- F Soft start controls**
- G Static switch assembly**
- H Internal battery strings**
with flexible runtime options
- I Input/output connections**
- J Optional internal rotary maintenance bypass switch**

74"H



Open front view of the unit

Front view

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

EATON 93PM UPS TECHNICAL SPECIFICATIONS¹

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
Height x depth x width	74" x 42" x 22"

Input characteristics

Voltage	480V 3-phase 3-wire or 4-wire (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 ²
Charging method	ABM [®] or float technology
Internal batteries	3, 4, or 5 strings available

Output

Voltage	480V 3-phase 3-wire or 4-wire (208V with IAC-D)
Regulation	±1% steady state
Voltage THD	<1% (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

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

- Integrated slim maintenance bypass
- Integrated distribution cabinet (with output transformer options)
- Integrated power distribution cabinet
- Integrated parallel tie cabinet
- 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

¹Due to continued improvements, specifications are subject to change.
²480V battery voltage required for 480V 4-Wire UPS configuration.

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Learn more at: Eaton.com/93PM

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