



# 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.

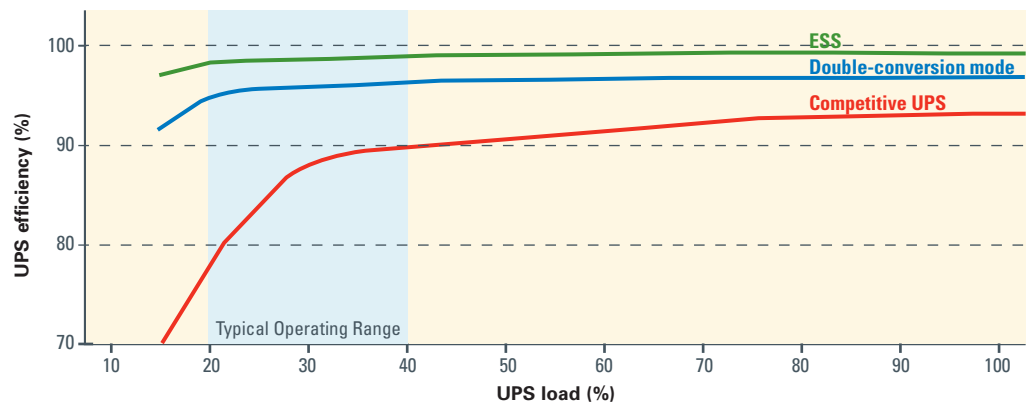
### Lowest TCO (total cost of ownership)

- 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

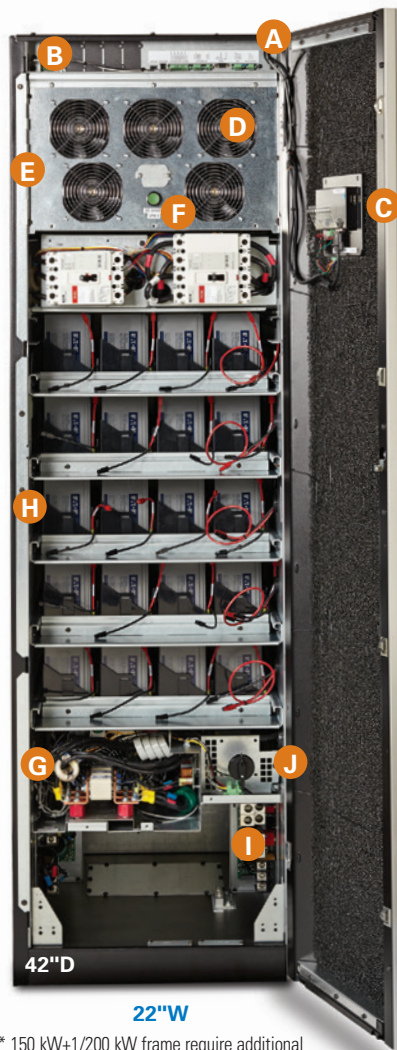
- Supports optional communication cards that allow remote access via the HTTP(S), SNMP, MODBUS TCP/IP, Modbus RTU and BACnet IP protocols
- Manage your power devices in your physical or virtual environment with Eaton's Power Xpert® software and Intelligent Power™ Software Suite
- Increase uptime through 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](http://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](http://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](http://Eaton.com/UL924UPS)

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

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