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.
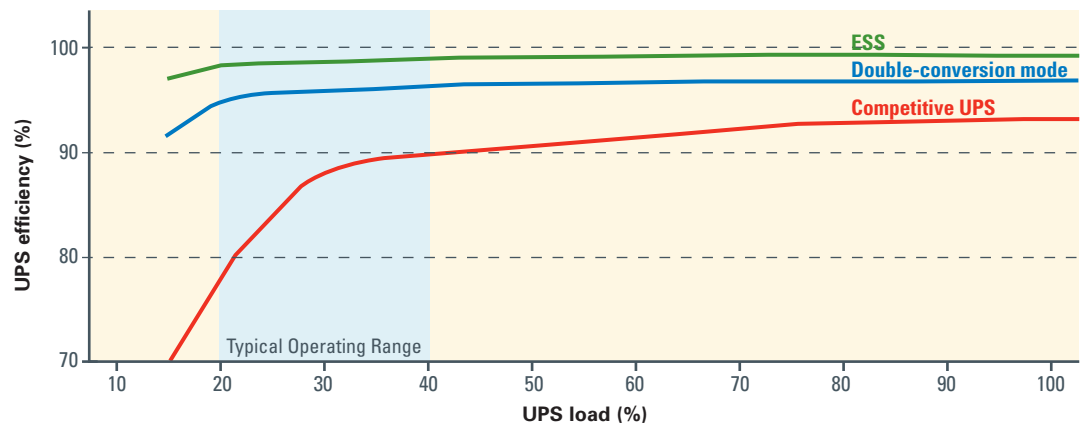
Lowest TCO (total cost of ownership)

- 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

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 protcols.
- 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 eNotify Remote Monitoring Service alerts service technicians to take necessary measures when a problem is detected; learn more at Eaton.com/enotify

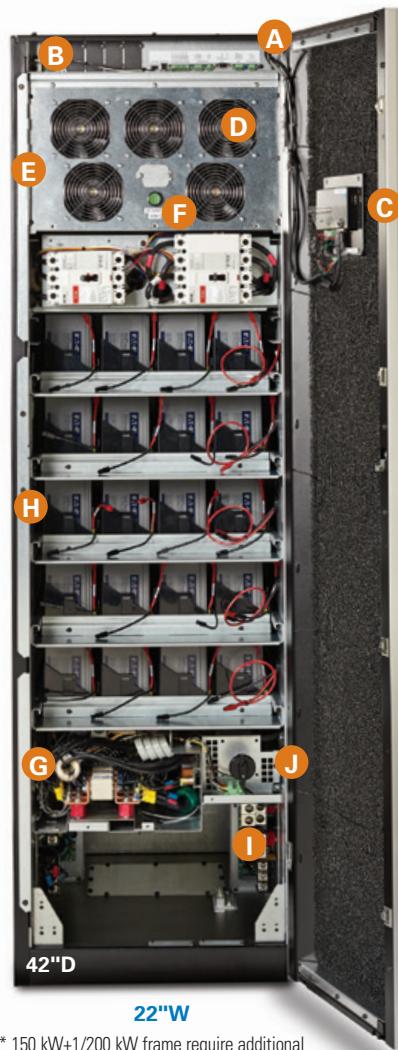**Eaton 93PM efficiency in double-conversion and ESS**

Powering Business Worldwide

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

General characteristics

Efficiency in Energy Saver System (ESS)	99%
Efficiency in double-conversion mode	Up to 97%
Parallel capability	4 distributed

Input characteristics

Voltage	480V (208V with IAC-D)
Voltage range	+10% / -15%
Frequency range	40-72 Hz
Power Factor	> .99
Input current distortion	< 3% @ 100% load capacity

Battery

Battery voltage	432V
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	UL1778, cUL
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)

Due to continued improvements, specifications are subject to change.

Learn more at:
Eaton.com/93PM

F·T·N
Powering Business Worldwide