



Eaton 93PM UPS (480V)

Efficient. Scalable. Innovative.

The Eaton 93PM UPS (480V) now offers higher power density, enhanced serviceability and updated technology while continuing to deliver best-in-class efficiency and proven reliability. Ideal for data centers, medical facilities and educational institutions, the 93PM UPS delivers a low-maintenance, 10-year power solution with unmatched TCO.

Platform and specification continuity

- The updated 93PM (480V) includes everything you know and trust about the 93PM UPS family.
- Key specifications are unchanged, and the power module design is field proven during years of service.

Expanded power capacity

- Higher power density allows expanded power capacity in the same compact footprint.
- The UPS supports up to 250 kW in a single frame.

Enhanced serviceability

- Power module service and replacement requires less time and disassembly.
- Blind mate connectors reduce connection time, so the UPS can spend less time in bypass.

Energy efficiency

- Industry-leading efficiency optimizes power and cooling operating costs and reduces TCO.
- Provides up to 99% efficiency in Energy Saver System (ESS) mode and up to 97% efficiency in double conversion.

Flexibility

- Modular design allows you to scale capacity as needed, conserving capital and cash flow.
- Lithium-ion battery options provide longer service life.

Easy local management

- Profile your load and much more with the LCD touchscreen.
- Track statistics on energy savings, battery time and outages.
- View system status from a distance with the LED light bars.

Advanced IT integration

- Optional communication cards support HTTP(S), SNMP, Modbus TCP/IP, Modbus RTU and BACnet IP protocols.
- Eaton's Brightlayer Data Centers suite helps you monitor, manage and control IT and facility assets proactively. Learn more at [Eaton.com/BrightlayerDataCenters](https://www.eaton.com/BrightlayerDataCenters).
- Eaton's Remote Monitoring Service helps prevent downtime 24/7. Learn more at [Eaton.com/PredictPulse](https://www.eaton.com/PredictPulse).

Compact footprint

- Requires up to 26% less space than competitors, including 33% less width, saving valuable data center white space.



Powering Business Worldwide

The 93PM's ESS energy cost savings can pay for the UPS in less than three years. Calculate your 93PM savings with ESS at [Eaton.com/ESS](https://www.eaton.com/ESS).

The functional core of the 93PM UPS



Front view



Color LCD touchscreen detail

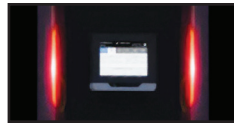
See an interactive demo of the LCD touchscreen at Eaton.com/93PM.

A Color LCD touchscreen

- User-friendly graphical LCD interface helps you profile loads and track energy savings, runtime, outages and more.

B LED status light bars

- Green/yellow/red LEDs show system status from a distance, even in dark data centers.



C Up to (5) 50 kW power modules

- Independent control and power.

D Soft start controls

- Contained in each power module.

E Serviceable fan assembly

F Static switch assembly

G Communications and connectivity

- Built-in device and host USB.
- Five alarm inputs and dedicated EPO.
- Alarm relay output.
- Four slots for optional communication cards.
- Eaton's Brightlayer Data Centers suite helps you monitor, manage and control IT and facility assets.



Open front view (250 kW unit)

Eaton 93PM UPS technical specifications

Power modules

Power offering	50–250 kW in 50 kW increments with optional internal N+1 redundancy through 200 kW
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General characteristics

Efficiency in Energy Saver System (ESS) mode	Up to 99%
Efficiency in double-conversion mode	Up to 97%
Height x depth x width	74" x 42" x 22"

Input characteristics

Voltage (configured to order)	380/400/415V 3-phase (4-wire) 480V 3-phase (3-wire or 4-wire)
Voltage range	+10%/-15%
Frequency	50/60 Hz
Power factor	> .99
Input current distortion	≤ 3% @ 100% load capacity

Battery

Battery voltage	432V, 480V (480V required for 480V 4-wire UPS)
Charging method	ABM® or float technology

Output

Voltage (configured to order)	380/400/415V 3-phase (4-wire) 480V 3-phase (3-wire or 4-wire)
Frequency	50/60 Hz
Regulation	±1% steady state
Voltage THD	<1% (100% linear load); <5% (non-linear load)
Load power factor range	Unity power factor with the ability to support 0.8 leading to 0.8 lagging without derating

Certification

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

Optional accessories

- Integrated maintenance bypass
- Integrated power distribution cabinet
- Integrated battery cabinets (small and large)
- Lithium-ion battery cabinets
- Remote management cards
- Brightlayer Data Centers suite

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

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