

Product brochure

20-160 kW



Eaton 93PM 400V 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.

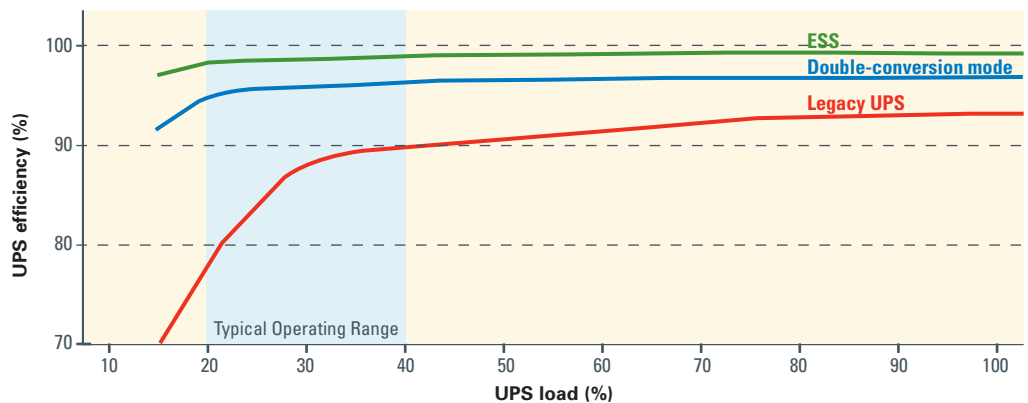
Lowest TCO (total cost of ownership)

- 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.

Features of the 93PM UPS

- **Top & bottom cable entry**
Bottom cable entry standard on 40–120 kW frames with top entry available via optional sidecar. 160 kW frame offers standard right-mounted wireway, supporting both top and bottom cable entry
- **Communications and connectivity**
 - Built-in device and host USB
 - Five alarm inputs and dedicated EPO
 - Alarm relay output
 - Four communication slots
- **Color touchscreen LCD interface**
- **Serviceable redundant fan assembly**
- **Swappable power modules (40 kW)** with independent control and power
- **Soft start controls**
- **Static switch assembly**

74"H



22"W

40, 80, and 120 kW frames

32"W

160 kW frame

EATON 93PM UPS TECHNICAL SPECIFICATIONS¹

Power modules for 400V offering

Power offering (kW)	20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160 kW with optional internal N+1 redundancy through 120 kW
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General characteristics

Efficiency in Energy Saver System (ESS)	Up to 99%
Efficiency in double-conversion mode	Up to 97%
Parallel capability	Four distributed
Height x depth x width	160 kVA: 74" x 42" x 32" 40, 80, 120 kW: 74" x 42" x 22"

Input characteristics

Voltage	380/220V 4-wire 400/230V 4-wire 415/240V 4-wire
Voltage range	+10% / -10%
Frequency range	50/60 Hz
Power factor	> .99
Input current distortion	< 3% @ 100% load capacity

Battery

Battery voltage	480V
Charging method	ABM [®] or float technology

Output

Voltage	380V, 400V, or 415V 3-phase 3-wire or 4-wire
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, cULus
EMC	FCC Part 15 subpart B class A
Surge	IEC 61000-4-5

Optional accessories

- Integrated slim maintenance bypass
- Integrated battery cabinet (small and large)

¹Due to continued improvements, specifications are subject to change.

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