

# Eaton 93PM 400 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 solution for today's mission critical applications.

## Lowest TCO (total cost of ownership)

- Conserve valuable 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

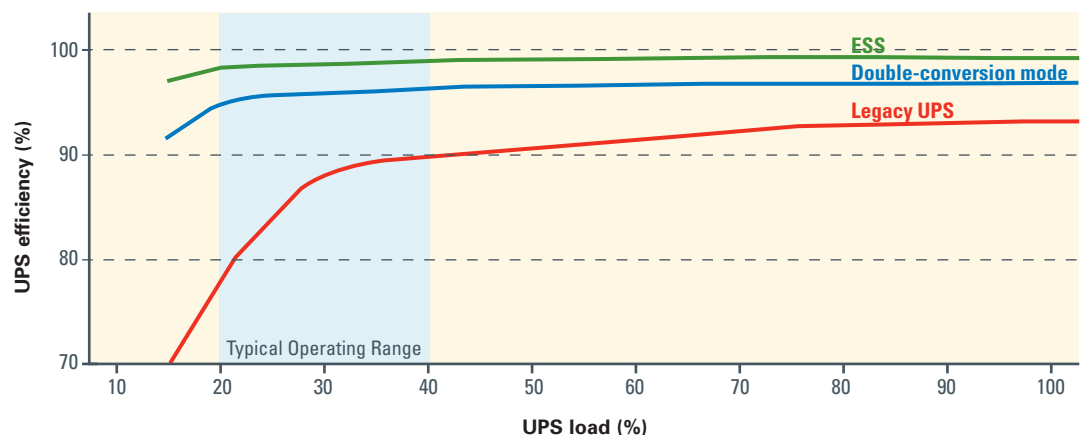
## Easy management

- 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 monitoring and communications

- 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](http://Eaton.com/PredictPulse)

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



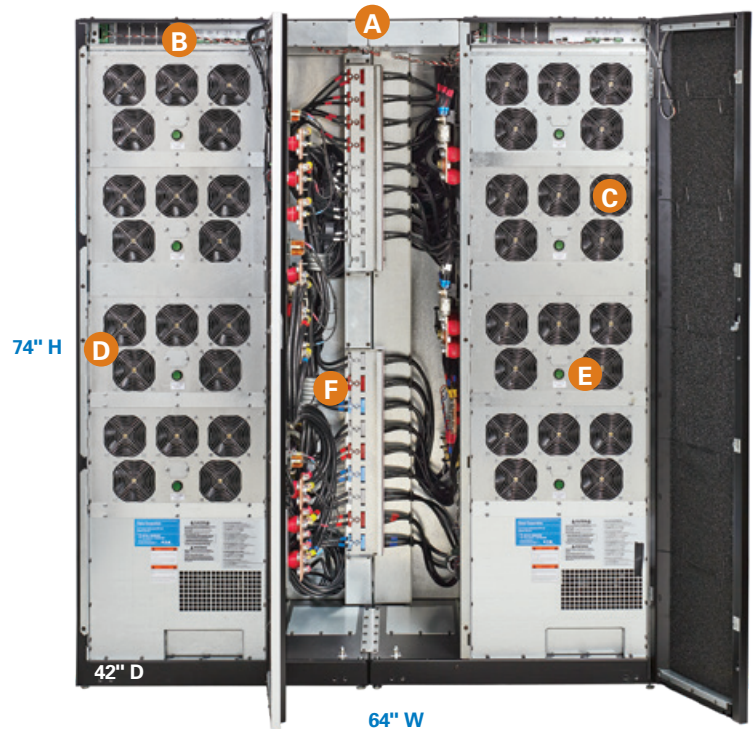
Powering Business Worldwide

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](http://Eaton.com/ESS).

# The functional core of the 93PM UPS

- A Cable entry**  
Top and bottom cable entry options available
- B Communications and connectivity**
  - Built-in device and host USB
  - Five alarm inputs and dedicated EPO
  - Alarm relay output
  - Four communication slots
- C Serviceable redundant fan assembly**  
Contained within each power module
- D Swappable power modules (50 kW)**  
with independent control and power
- E Soft start controls**  
Contained within each power module
- F Input/output connections**



## EATON 93PM UPS TECHNICAL SPECIFICATIONS\*

### Power modules for 50 kW frame

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| Power offering (kW) | 100, 150, 200, 250, 300, 350, 400<br>(optional internal redundancy available) |
|---------------------|-------------------------------------------------------------------------------|

### General characteristics

|                                         |                 |
|-----------------------------------------|-----------------|
| Efficiency in Energy Saver System (ESS) | 99%             |
| Efficiency in double-conversion mode    | Up to 97%       |
| Height x depth x width                  | 74" x 42" x 64" |

### Input characteristics

|                          |                           |
|--------------------------|---------------------------|
| Voltage                  | 480V                      |
| 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 |

## Open front view of 400 kW unit

### Output

|                         |                                                                                |
|-------------------------|--------------------------------------------------------------------------------|
| Voltage                 | 480V                                                                           |
| Regulation              | ±1% steady state                                                               |
| Voltage THD             | <1% (100% linear load);<br><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 | UL1778, cUL                   |
| EMC    | FCC Part 15 subpart B class A |
| Surge  | IEC 61000-4-5                 |

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

Learn more at:  
**Eaton.com/93PM**