20-400kW

Efficient. Scalable. Innovative.



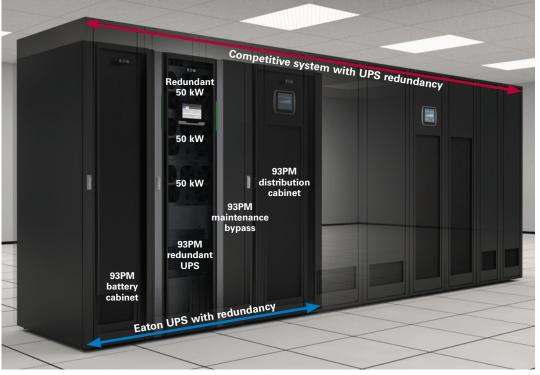


The Eaton 93PM is an ENERGY STAR® qualified UPS. ENERGY STAR is intended to help consumers save money and protect the environment through energy efficient products and practices.

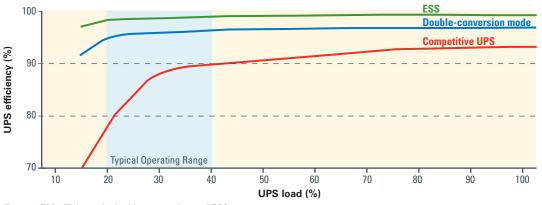


93PM features and benefits

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.



The 93PM's vertical scalability, internal redundancy and compact footprint design



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.

Eaton 93PM efficiency in double conversion and ESS

Table showing 400 kW efficiency savings comparison

| Load % | Leading competitor efficiency ** | 93PM ESS efficiency | 93PM ESS annual savings(\$)* | 93PM double- conversion efficiency | 93PM double-conversion annual savings (\$)* |
|--------|-------------------------------------|------------------------|---------------------------------|---------------------------------------|--|
| 25% | 84.0% | 98.4% | \$27,470 | 95.8% | \$23,121 |
| 50% | 90.6 % | 98.9% | \$29,212 | 96.8% | \$22,294 |
| 75% | 92.5 % | 99.1% | \$34,059 | 97.0% | \$23,724 |
| 100% | 93.0% | 99.1% | \$41,746 | 96.8% | \$26,623 |

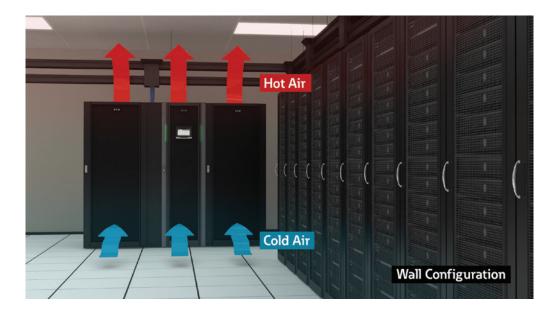
The 93PM doubleconversion energy savings pay for the UPS in less than 3 years.

* Savings calculated using \$0.10 kW/hr. and 80% cooling ratio (currency in US dollars)

** Leading competitor does not offer ESS mode

1. Lowest TCO (Total cost of ownership)

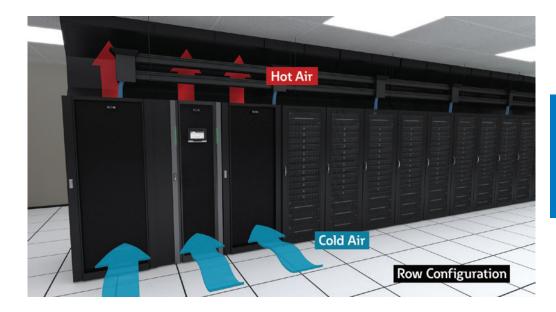
- Conserves valuable data center floor space with its compact footprint and internal redundancy design
- Reduces cost and unexpected future growth risks with its vertical scalability, enabling you to scale as you grow
- Reduces power and cooling OPEX through industryleading energy-efficiency
- 99% efficiency with ESS
- Up to 97% efficiency in double-conversion mode



2. Easy deployment

 Maximizes deployment flexibility by providing flexible configurability

The 93PM supports front-to-top ventilation, ideal for against the wall configuration.



Front-to-top ventilation feature also makes the 93PM a perfect fit for in-row configurations that support slim chimneys.



The 93PM also supports front-to-back ventilation making it great for hot/ cold aisle configuration.



LED light bars

Green light bars showing healthy UPS.



Red light bars showing alerts on system. Yellow light bars indicate battery and bypass status.

| Vices | Nudeta | NI. | | | | | | • | Selection view | 2 |
|----------------|------------|--------|-------------------------|----------------------------|-----------------------|-----------|-----|------|---|-----------------------|
| Views | Type | Status | None | Location | Contract | Loadievel | | Link | Information | |
| Node List | 12 | 0 | GREFRINEBOOC755 marc.m. | | | | | (>) | 0 10 222 50 201 | |
| - Events | U. | 0 | 166-99-224 133 | | | | | () | 0 10.222.50.201 | EATON |
| Events List | | 0 | 100 99 204 154 | | | | | 0 | Description | 83PM |
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| Type : Trijar | U. | 0 | 100.09.224.116 | | | | | 0 | Link | ø |
| Management | 6 | 0 | 166.99.254.146 | 3000 S. Sutan St, Santa A. | www.palitti.non | | 0% | | Salus | |
| Nodes Settings | | 0 | 165 99 224 155 | Computer Room | Computer Room Manager | - | 50% | | | O Citical silare |
| Wodes Upgrade | 43 | 0 | 105-89-224.77 | | | | | 0 | Dypess | 1 On automatic bypass |
| Auto Discovery | a. | 0 | 166.99 234 111 | | | | | () | Debury state | O Charging |
| Actions | | 0 | praczwe8750734e | | | | | | Power Source | On utility |
| PSystem | | 0 | 10.222.56.201 | | | | 0% | 0 | Load level Batery capacity | 0 % ON |
| Log | | 0 | 10 222 55 303 | 140 | TEST | | 0% | | Endery capacity | 0.0 |
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| | 0 | 0 | 165 39 224 132 | Controuter Room | Computer Room Manager | CIERCITE | 0% | 0 | Online UPS | |
| | 8 | 0 | 105 99 254 155 | Computer Room | Computer Room Manager | | 0% | 0 | | |
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| | 10 | 0 | 166.99.224.151 | Computer Room | Computer Room Manager | mmm | 0% | 09 | | |
| | | 0 | | | Computer Room Manager | | 0% | 0 | Event | |

Intelligent Power Manager seamlessly integrates into the major virtualization platforms, including VMware®, Citrix®, Red Hat® and Microsoft® Systems Center.



Communication card

Connectivity options:

- Power Xpert Gateway Mini-slot communication card
- Industrial relay card

3. Easy management

 Provides easier access to detailed status information through its large, user-friendly LCD touchscreen interface

With the 93PM's graphical LCD interface you can track stats on energy savings, battery time, outage tracking, load profiling and much more.

The green/yellow/red LED lightbars make system status visible from a distance in data centers.

 Integrates with the leading virtual platforms through its full suite of power management and connectivity software

Designed for the most advanced IT environments, the 93PM supports optional communication cards that allow remote access via the HTTP(S), SNMP, MODBUS TCP/IP, Modbus RTU and BACnet IP protocols. In addition, Eaton's Power Xpert® software and Intelligent Power Software Suite give you all the tools you need to manage power devices in your physical or virtual environment. Learn more at

Eaton.com/intelligentpower.

Increases uptime through its 24x7 remote monitoring and reporting capabilities

Eaton's PredictPulse™ remote monitoring and management service provides real-time monitoring of the 93PM and alerts service technicians to take necessary measures when a problem is detected. Learn more at **Eaton.com/PredictPulse**.

Eaton's comprehensive portfolio

Integrated data center products and services



The functional core of the 93PM UPS



Eaton 93PM UPS Technical Specifications*

Power Modules

| Power offering (kW) | 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, |
|---------------------|--|
| | 130, 140, 150, 160, 170, 180, 190, 200, 250, |
| | 300, 350, 400 |
| | (optional internal redundancy available) |

General Characteristics

| Efficiency in Energy Saver System (ESS) | 99% |
|---|--|
| Efficiency in double-conversion mode | Up to 97% |
| Parallel capacity | Four distributed, contact factory for more information |

Input Characteristics

| Voltage | 480V (208V with IAC-D, available up to 100kW) |
|--------------------------|--|
| Voltage range | +10% / -15% |
| Frequency range | 50/60 Hz |
| Power factor | > .99 |
| Input current distortion | < 3% @ 100% load capacity |
| Input current distortion | < 3% @ 100% load capacity |

Battery

| Battery voltage | 432V, 480V |
|-----------------|--------------------------------------|
| Charging method | ABM [®] or float technology |

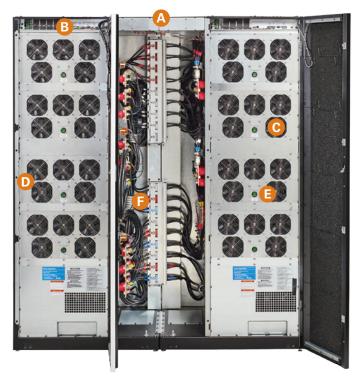
UPS Dimensions

| Height | 74" |
|--------|--|
| Depth | 42" |
| Width | 22" (20-150 kW), 32" (160-200kW), 64" (250-400kW) |

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Open front view of 400 kW unit

Output

| output | |
|-------------------------|---|
| Voltage | 480V (208V with IAC-D, available up to 200kW) |
| 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 |
| | |

| | UL 924 Auxiliary, cULus |
|-------|-------------------------------|
| EMC | FCC Part 15 subpart B class A |
| Surge | IEC 61000-4-5 |

Optional Accessories

External slim maintenance bypass
 Interacted distribution achieve (with input and output transformer actions)

- Integrated distribution cabinet (with input and 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

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

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Learn more at Eaton.com/93PM