Eaton 9PX UPS
5 - 11 kVA

Energy efficient power protection

Performance and Efficiency
- Double conversion topology. The Eaton 9PX constantly monitors power conditions and regulates voltage and frequency.
- With up to 95% efficiency in online double conversion mode and 98% in high-efficiency mode, the 9PX provides the highest efficiency level in its class to reduce energy & cooling costs.
- With a 0.9 power factor, the 9PX delivers 28% more power than UPS in its class. It powers more servers than other UPSs with equivalent VA ratings and lower power factors.
- With a RT (Rack/tower) versatile form factor, the 9PX is the most compact solution in its class delivering up to 5400W in only 3U and 10kW in only 6U.

Manageability
- The new graphical LCD provides clear information on the UPS’s status and measurements on a single screen (in seven languages). LCD display position can be adjusted to offer the best viewable angle for tower and rack usage.
- The 9PX can meter energy consumption. kWh values can be monitored using the LCD or Eaton’s Intelligent Power® Software Suite.
- Load segment control enables prioritized shutdowns of nonessential equipment to maximize battery runtime for critical devices. It can also be used to remotely reboot locked-up network equipment or to manage scheduled shutdowns and sequential start-ups.
- The 9PX offers Serial, USB and relay connectivity, plus an extra slot for an optional card. Eaton’s Intelligent Power® Software Suite compatible with all major OS including virtualization software such as VMware and Hyper-V is included with each UPS.

Availability and Flexibility
- The internal bypass allows service continuity in case of internal fault, a Maintenance ByPass is also available for easy replacement of the UPS without powering down critical systems.
- The Eaton 9PX can be paralleled to achieve twice the power of unitary product using HotSync technology, without extra cost on the initial purchase (available in Q2 2013).
- Stronger, longer battery life: Eaton ABM® battery management technology uses an innovative three-stage charging technique that extends battery life by up to 50%.
- More runtime can be added with up to 12 external hot-swapable battery modules, able to run systems for hours if necessary. The additional battery modules are automatically recognized by the UPS.

Advanced protection for:
- Small & medium datacenter
- IT, Networking, Storage and Telecom
- Infrastructure, Industrial and Medical
Eaton 9PX UPS

1 Remote Off/On and Remote Power Off connectors
2 Slot for Network-MS, ModBus-MS or Relay-MS cards
3 Parallel operation port (DB15)
4 External battery module (EBM) connector with automatic detection (RJ 11)

Technical Specifications

<table>
<thead>
<tr>
<th>Rating (VA/W)</th>
<th>5kVA</th>
<th>6kVA</th>
<th>8kVA</th>
<th>11kVA</th>
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<tr>
<td>5kVA/4.5kW</td>
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<td>6kVA/5.4kW</td>
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<td>8kVA/7.2kW</td>
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<td>11kVA/10kW</td>
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Electrical Characteristics

- Technology: On-line double conversion with Power Factor Correction (PFC) system
- Nominal voltage: 200/208/230/240V
- Input voltage range: 176-276V without derating (up to 100-276V with derating)
- Output voltage/THDU: 200/208/230/240V +/-1%; THDU <2%
- Input frequency range/THDI: 40-70Hz, 50/60Hz autoselection, frequency converter as standard, THDI <5%
- Efficiency: Up to 94% in Online mode, 98% in Hi-Efficiency mode
- Crest factor/short circuit current: 3:1/90A
- Overload capacity: 102–110%: 120s, 110–125%: 60s, 125–150%: 10s, >150%: 500ms

Connections

- Input: Terminal block (up to 10 mm²)
- Outputs: Terminal block + 2 controlled groups of 4 IEC C13 (10A) + 2 IEC C19 (16A)
- Outputs with HotSwap Maintenance Bypass: Terminal block + 3 IEC C13 (10A) + 2 IEC C19 (16A)

Batteries

- Typical backup times at 50 and 70% load:
  - 9PX: 13/10 min, 11/8 min, 20/15 min, 13/9 min
  - 9PX + 1 EBM: 60/40 min, 48/34 min, 48/32 min, 32/21 min
  - 9PX + 4 EBM: 220/150 min, 170/120 min, 140/100 min, 100/70 min
- Battery management: ABM® and Temperature compensated charging method (user selectable), automatic battery test, deep discharge protection, automatic recognition of external battery units.

Communication

- Communication ports: 1 USB port, 1 RS232 serial port (USB and RS232 ports cannot be used simultaneously), 4 dry contacts (DB9), 1 mini terminal block for remote On/Off and 1 for remote power Off, 1 DB15 for parallel operation.
- Communication slot: 1 slot for Network-MS card, ModBus-MS or Relay-MS cards.

Operating conditions, standards and approvals

- Operating temperature: 0 to 40°C continuous
- Noise level: <45dB
- Safety: IEC/EN 62040-1, UL 1778, CSA 22.2
- Approvals: CE, CB report (TUV), UL

Dimensions H x W x D/Weight

- UPS: 440/19"*130/3U*685mm/48kg
- EBM: 440/19"*130/3U*645mm/68kg
- Power module: 440/19"*130/3U*700mm/19kg

Customer Service and Support

- Warranty: 3 years on electronics, 2 years on battery 2 years on electronics and battery

Parts Numbers

- 9PX 5kVA: EBM180RT, MBK1K, TFMR11K, 1.8m Battery Connection Cable: EBM180RT, EBM180RT, EBM180RT
- 9PX 6kVA: EBM180RT, MBK1K, TFMR11K, 1.8m Battery Connection Cable: EBM180RT, EBM180RT, EBM180RT
- 9PX 8kVA: EBM240RT, MBK1K, TFMR11K, 1.8m Battery Connection Cable: EBM240RT, EBM240RT, EBM240RT
- 9PX 11kVA: EBM240RT, MBK1K, TFMR11K, 1.8m Battery Connection Cable: EBM240RT, EBM240RT, EBM240RT

Runtimes are shown at 0.7 power factor. Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.