## **Eaton 9PX 1:1 UPS**

**6 - 11kVA**



### 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 other UPS in it's 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 5.4kW 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 prioritised shutdowns of non-essential equipment to maximise battery runtime for critical devices. It can also be used to remotely reboot locked-up network equipment orto manage scheduled shutdowns and sequential start-ups.
* The 9PX offers Serial, USB and relay connectivity, plus an

extra slot for an optional card (Ethernet Network, Voltage Free Contact

Relay, or Modbus & Network). Eaton's Intelligent Power®

Software Suite compatible with all major OS including virtualisation 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 Module is also available for easy UPS replacement without interruption to the critical load" 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 Eaton's proprietary Hot Sync® technology.
* 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 run time can be added with up to 12 external hot swappable battery modules, able to run systems for hours if

necessary. The additional battery modules are automatically recognised by the UPS.

##### **Advanced protection for:**

* **Small & medium data centre**
* **IT, Networking, Storage and Telecom**
* **Infrastucture, Industrial and Medical**

Rack/Tower versatile (6kVA model depicted)



9PX 11kVAwith

Maintenance

ByPass



9PX LCD tilts 45° for ease-of-viewing



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###### **What's in the box:**

* **Pedestal feet**
* **USB cable**
* **Serial cable**
* **Cable retention brackets**
* **Safety instruction guide**
* **Software suite CD**
* **User manual**



Eaton 9PX 8-11kVA UPS

Eaton 9PX 6kVA 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 (RJ11)
5. 8 IEC 10A sockets (2 groups of 4 manageable sockets) with cable retention system
6. 2 IEC 16A sockets with cable retention system
7. DB 9 with output contacts
8. USB and serial ports
9. Input/Output connection

***&***

Windows 7



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#### Switch M N to Eaton

**Eaton Australia**

1300 UPS UPS

[www.eaton.com/powerquality](http://www.eaton.com/powerquality)

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**Eaton New Zealand**

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| --- | --- | --- | --- |
| Technical Specifications | 6kVA | 8kVA | 11kVA |
| Rating (kVA/kW) | 6kVA/5.4kW | 8kVA/7.2kW | 11kVA/10kW |
| Electrical Characteristics | | | |
| Technology | On-line double conversion with Power Factor Correction (PFC) system | | |
| Nominal voltage | 200/208/220/230/240V | 200/208/220/230/240V/250V |  |
| Input voltage range | 176-276V without derating (up to 100-276V with derating) | | |
| Output voltage/THDU | 200/208/220/230/240V +/- 1%; THDU <2% | 200/208/220/230/240/250V +/- 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 | Up to 95% in Online mode, 98% in Hi-Efficiency mode | |
| Crest factor/short circuit current | 3:1/90A | 3:1/120A | 3:1/150A |
| Overload capacity | 102-110% : 120s, 110-125%: 60s, 125150%: 10s, >150%: 500ms | 102-110% : 120s, 110-125%: 60s, 125-150%: | 10s, >150%: 900ms |
| Connections | | | |
| Input | Terminal block (up to 10 mm2) | Terminal block (up to 16mm2) | |
| Outputs | Terminal block + 2 controlled groups of 4 IEC C13 (10A) + 2 IEC C19 (16A) | Terminal block | |
| Outputs with optional HotSwap Maintenance Bypass | Terminal block + 3 IEC C13 (10A) + 2 IEC C19 (16A) | Terminal block + 4 IEC C19 (16A) | |
| Batteries | | | |
| Typical backup times at 50 and 70% load\* | | | |
| 9PX (8 & 11 kVA = 1 Power Module + 1 EBM) | 11/8 min | 20/15 min | 13/9min |
| 9PX + 1 EBM (8 & 11 kVA = Total 2 EBM) | 48/34 min | 48/32 min | 32/21 min |
| 9PX + 4 EBM (8 & 11 kVA = Total 5 EBM) | 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 | <48db | <50db |
| Safety | IEC/EN 62040-1, UL 1778, CSA 22.2 | | |
| EMC, performance | IEC/EN 62040 -2 , FCC Class A, IEC/EN 62040-3 (Performance) | | |
| Approvals | CE, CB report (TUV), UL (6kVA UPS, 8 and 11kVA power module) | | |
| Dimensions H x W x D/Weight | | | |
| UPS (8 & 11 kVA = 1 Power Module + 1 EBM) | 440(19'')\*130(3U)\*685mm/48kg | 440(19'')\*260(6U)\*700mm/84kg | 440(19'')\*260(6U)\*700mm/86kg |
| EBM | 440(19'')\*130(3U)\*645mm/68kg | 440(19'')\*130(3U)\*680mm/65kg | 440(19'')\*130(3U)\*680mm/65kg |
| Power module | - | 440(19'')\*130(3U)\*700mm/19kg | 440(19'')\*130(3U)\*700mm/21kg |
| Customer Service and Support | | | |
| Warranty | 3 years electronics, 2 years battery |  |  |

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

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| --- | --- | --- | --- |
| Part Numbers | 9PX 6kVA | 9PX 8kVA | 9PX 11kVA |
| UPS | 9PX6Ki |  |  |
| Power Module | - | 9PX8KiPM | 9PX11KiPM |
| EBM | 9PXEBM180 | 9PXEBM240 | 9PXEBM240 |
| HotSwap Maintenance Bypass | MBP6Ki | MBP11Ki | MBP11Ki |
| Transformer Module | TFMR11Ki | TFMR11Ki | TFMR11Ki |
| Supercharger with Rack Kit | - | SC240RT | SC240RT |
| 1.8m Battery Connection Cable | EBMCBL180 | EBMCBL240 | EBMCBL240 |
| Battery Integration System | BINTSYS | BINTSYS | BINTSYS |
| Rack Kit | 9RK | 9RK | 9RK |
| Parallel & bypass module | 9PXMEZ6Ki | 9PXMEZ11Ki | 9PXMEZ11Ki |