

Eaton 5P and 5PX UPS

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Superior manageability
and energy metering
capabilities for better
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EATON

Powering Business Worldwide

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Introducing the Eaton 5P and 5PX UPS. Energy efficient, virtualisation-ready with an advanced graphical LCD.

In today's complex IT environments, it's vital you have access to key UPS status information, and can optimise energy efficiency and performance to reduce your costs. **The Eaton 5P and 5PX set new standards in server, storage and networking power protection**, offering a unique combination of features that make the most of today's technology and help you to stay ahead.

Eaton 5P and 5PX UPS key benefits.

- The new **graphical LCD** provides clear information on the UPS's status and measurements on a single screen (in seven languages). Enhanced configuration capabilities are also available with easy-to-use navigation keys.
- **Meters energy consumption** and provides kWh values through the LCD and our power management software
- Up to **98% energy efficiency** with the 5P and up to 99% with the 5PX, significantly reducing cooling and utility costs

The 5P and 5PX give **optimum real-time visibility** into power consumption to support better decision-making, improve system uptime and enhance overall business performance.



5P from 650 to 1550VA.



5PX from 1500VA to 3000VA.

Features that set the Eaton 5P and 5PX apart.

- **Pure sinewave output:** When operating in battery mode the 5P& 5PX provides a high quality output signal for any sensitive equipment connected, such as active PFC (power factor corrected) servers.
- **Unmatched energy density** with up to 1.1KW in 1U and 2.7kW in 2U.
- **Load segment control** enables prioritised shutdowns of nonessential equipment to maximise battery runtime for critical devices
- **Serial, USB and relay connectivity**, plus an extra slot for an optional communication card
- **Intelligent Power® Software Suite** compatible with all major OS including virtualisation software such as VMware and Hyper-V is included with each UPS
- **Eaton ABM® battery management** technology for longer battery life
- **Batteries can be hot-swapped** without ever having to shut down connected equipment. With an optional, hot-swap maintenance bypass module, you can even replace the entire UPS.
- **3-year warranty on electronics**, 2 years on batteries.



Both the Eaton 5P and 5PX UPS feature graphical LCD display.



Eaton 5PX UPS can easily be used as a rack or a tower model.

5PX unique features

- For the first time in the industry the 5PX can meter energy consumption right down to the managed outlet groups.
- The 5PX is available in a **rack/tower convertible** version – pedestal and rail kits are included with all models at no extra charge.
- With a **power factor of 0.9**, the 5PX delivers more real output power. It powers more servers than other UPSs with equivalent VA ratings and lower power factors.
- There is also the possibility to add more runtime with up to four **external hot-swappable battery modules**, able to run systems for hours if necessary.

Eaton innovating for more than 50 years.

Virtualisation-ready for seamless integration.

As a **VMware Technology Alliance Partner**, Eaton is at the forefront of maximising compatibility of its protection software for the virtual environment. The virtualisation-ready 5P and 5PX are examples of this partnership in action.

In line with our commitment to the open source community, we are constantly working with partners such as Red Hat to generate **greater compatibility** between IT devices and our power devices.

Our **Intelligent Power® Manager** integrates seamlessly with Citrix's XenCenter Server, enabling you to administer backup power and power distribution assets using one, common virtual management console.



5P and 5PX specifications

5P Technical Specifications	650	850	1150	1550
Rating (VA/W)	650VA/420W	850VA/600W	1150VA/770W	1550VA/1100W
Format	Tower or Rack 1U	Tower or Rack 1U	Tower or Rack 1U	Tower or Rack 1U
Connections				
Input	1 IEC C14 (10A)			
Outputs Tower model	4 IEC C13 (10A)	6 IEC C13 (10A)	8 IEC C13 (10A)	8 IEC C13 (10A)
Outputs Rack 1U model	4 IEC C13 (10A)	4 IEC C13 (10A)	6 IEC C13 (10A)	6 IEC C13 (10A)
Switched Outlet Group	2 outlet groups			
Batteries				
Typical backup times at 50 and 70% load ¹				
5P	9/6 mn	12/7 mn	12/7 mn	13/8 mn
Dimensions H x W x D / Weight 5P				
Tower models	230*150*345mm/7.8kg	230*150*345mm/10.4kg	230*150*345mm/11.1kg	230*150*445mm/15.6kg
Rack 1U models	43.2(1U)*438*364mm/8.6kg	43.2(1U)*438*509mm/13.8kg	43.2(1U)*438*509mm/14.6kg	43.2(1U)*438*554mm/19.4kg
Parts Numbers 5P				
Tower	5P650i	5P850i	5P1150i	5P1550i
Rack 1U	5P650iR	5P850iR	5P1150iR	5P1550iR

5PX Technical Specifications	1500	2200	3000
Rating (VA/W)	1500VA/1350W	2200VA/1980W	3000VA/2700W
Format	RT2U (Tower/Rack 2U)	RT2U (Tower/Rack 2U)	RT2U and RT3U
Connections			
Input	1 IEC C14 (10A)	1 IEC C20 (16A)	1 IEC C20 (16A)
Outputs	8 IEC C13 (10A)	8 IEC C13 (10A) + 1 IEC C19 (16A)	8 IEC C13 (10A) + 1 IEC C19 (16A)
Switched Outlet Group	2 outlet groups		
Batteries			
Typical backup times at 50 and 70% load ¹			
5PX	19/11 mn	15/8 mn	14/9 mn
5PX + 1 EBM	90/54 mn	60/35 mn	66/38 mn
5PX + 4 EBM	285/180 mn	210/125 mn	213/121 mn
Dimensions H x W x D / Weight 5PX			
UPS and EBM Dimensions	441 x 522 x 86.2 (2U) mm	441 x 522 x 86.2 (2U) mm	441 x 647 x 86.2 (RT2U) mm 441 x 497 x 130.7 (RT3U) mm
UPS weight	27.6kg	28.5kg	38.08 (RT2U) – 37.33 (RT3U)
EBM weight	32.8kg	32.8kg	46.39 (RT2U) – 44.26 (RT3U)

Parts Numbers 5PX	1500	1500 Netpack ²	2200	2200 Netpack ²	3000 (RT3U)	3000 Netpack ² (RT2U)
UPS	5PX1500iRT	5PX1500iRTN	5PX2200iRT	5PX2200iRTN	5PX3000iRT3U	5PX3000iRTN
EBM	5PXEBM48RT	5PXEBM48RT	5PXEBM48RT	5PXEBM48RT	5PXEBM72RT3U	5PXEBM72RT2U

¹ Runtimes are shown at 0.7 power factor. Backup times are approximate and may vary with equipment, configuration, battery age, temperature etc.

² Network Management Card included as standard in Netpack versions.

5P & 5PX electrical characteristics

Technology	Line-Interactive High Frequency (Pure Sinewave, Booster + Fader)
Input voltage and frequency ranges without using batteries	160V-294V (adjustable to 150V-294V) 47 to 70Hz (50 Hz system), 56.5 to 70Hz (60 Hz system), 40Hz in low-sensitivity mode
Output voltage and frequency	230 V Adjustable to 200V / 208V / 220V / 230V / 240V, 50/60 Hz +/- 0.1 % (autosensing)
Battery management	ABM [®] and temperature compensated charging method (user selectable), automatic battery test, deep discharge protection

Communication

Communication Ports	1 USB port + 1 RS232 serial port and relay contacts (USB and RS232 ports cannot be used simultaneously), 1 mini-terminal block for remote ON/OFF and Remote Power Off
Communication Slot	1 slot for Network-MS card, ModBus-MS or Relay-MS cards

Operating conditions, standards and approvals

Operating temperature	0 to 35°C for 5P 650/850/1150, 0 to 40°C for 5P 1550 and 5PX
Noise level	<40dB for 5P, <45db for 5PX 1500/2200, <50db for 5PX 3000
Safety	IEC/EN 62040-1, UL 1778
EMC, Performance	IEC/EN 62040-2, IEC/EN 62040-3 (performance)
Approvals	CE, CB report (TUV)