# Eaton 5PX Gen2 UPS

## 1000/1500/2200/3000 VA

Rack/Tower versatile

Intuitive LCD display for ease
of configuration and management

**Advanced protection for:**

- Servers
- Switches
- Routers
- Storage devices

**Exceptional efficiency, manageability and energy metering capabilities for IT managers**

### Performance and efficiency

- Eaton 5PX Gen 2 provides Unity power factor (W=VA) capability. With 11% more power than other UPS it can protect more servers.
- Energy Star 2.0 certified, 5PX Gen2 offers best-in-class efficiency performance to reduce energy consumption and cooling costs.
- When operating in battery mode the 5PX provides a high-quality output signal for any sensitive equipment connected, such as active PFC (power factor corrected) servers.
- Each 5PX Gen2 battery configuration provides the best size/ runtime ratio.

### Management and Cybersecurity

- Innovative graphical LCD display brings all operating information at first sight. It also enhances commissioning and configuration capabilities.
- 5PX Gen2 Netpack models are delivered with Eaton Gigabit network management card, which provides Dual cybersecurity certifications (UL 2900-1 & IEC 62443-4-2) and enables connection to Eaton Cyber Secured Monitoring solutions.
- Together with 5PX Gen2, Eaton Gigabit network management card allows both remote UPS settings and remote firmware upgrade to ensure easy deployment (fleet management) and reduced maintenance cost.
- 5PX Gen2 meters energy consumption right down to the managed outlet groups. kWh values can be monitored using the LCD or Eaton's Intelligent Power Software.
- Eaton's Intelligent Power Software seamlessly integrates with leading virtualization environments and cloud orchestration tools.

### Availability and flexibility

- 5PX Gen2 2200VA & 3000VA are available in RT2U format (optimized for rack mounting) or RT3U (for tower installation or short-depth racks). Pedestals and rail kits are included with all models.
- 5PX Gen2 load segment control enables prioritized shutdowns of non-essential equipment to maximize battery runtime for critical devices (2 groups).
- Eaton ABM® battery management technology uses a three-stage charging technique that optimizes battery health and extends lifetime by up to 50%.
- Up to 4 external hot-swappable battery modules can be added for longer power availability.

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# Eaton 5PX Gen2 UPS

1 Graphical LCD display :
- Clear information on UPS status and measurements
- Enhanced configuration capabilities
- Available in 7 languages

2 Panel for batteries replacement (Hot-swappable)

Eaton 5PX Gen2 2200i RT3U

3 1 USB port + 1 serial port + remote ON/OFF and remote power OFF input + output relays

4 External battery (EBM) connector

5 8 IEC 10A + 2 IEC 16A sockets with energy metering (including 5 remote controlled sockets)

6 Communication card slot

## Technical specifications

| | 1000 | 1500 | 2200 | 3000 |
|---|---|---|---|---|
| Rating (VA/W) | 1000VA / 1000W | 1500VA / 1500W | 2200VA / 2200W | 3000VA / 3000W |
| Format (RT: Tower / Rack) | RT2U | RT2U | RT2U & RT3U | RT2U & RT3U |
| **Electrical characteristics** | | | | |
| Technology | Line-Interactive High Frequency (Pure Sinewave, Booster + Fader) | | | |
| Input voltage range without using batteries | 160V-294V (adjustable to 150V-294V) | | | |
| Input frequency range without using batteries | 47 to 70 Hz (50 Hz system), 56.5 to 70 Hz (60 Hz system), 40 Hz in low-sensitivity mode | | | |
| Output voltage | 230 V (+6/-10 %) (Adjustable to 200V* / 208V / 220V / 230V / 240V), 50/60 Hz +/- 0.1 Hz (autosensing) | | | |
| **Connections** | | | | |
| Input | IEC C14 (10A) | IEC C14 (10A) | IEC C20 (16A) | IEC C20 (16A) |
| Outputs | 8 x IEC C13 (10A) | 8 x IEC C13 (10A) | 8 x IEC C13 (10A)<br>2 x IEC C19 (16A) | 8 x IEC C13 (10A)<br>2 x IEC C19 (16A) |
| Remote controlled sockets | 2 groups of 2 x IEC C13 (10A) | 2 groups of 2 x IEC C13 (10A) | 1 group of 2 x IEC C13 (10A)<br>1 group of 2 x IEC C13 (10A) + 1 x IEC C19 (16A) | |
| Additional outputs with HS MBP | 4 FR / Schuko sockets or 3 BS sockets or 6 IEC 10A sockets or terminal blocks (HW version) | | | |
| Additional outputs with FlexPDU | 8 FR / Schuko sockets or 6 BS sockets or 12 IEC 10A sockets | | | |

| **Batteries** | | | | | | |
|---|---|---|---|---|---|---|
| Typical backup times ** | 300W | 500W | 800W | 1200W | 1800W | 2500W |
| 5PX 1000 | 30 | 17 | 8 | | | |
| 5PX 1000 + 1 EBM / + 4EBM | 148 / 591 | 83 / 332 | 48 / 192 | | | |
| 5PX 1500 | 44 | 24 | 13 | 7 | | |
| 5PX 1500 + 1 EBM / + 4EBM | 164/611 | 92 / 346 | 53 / 199 | 33 / 123 | | |
| 5PX 2200 | 50 | 28 | 16 | 9 | 4 | |
| 5PX 2200 + 1 EBM / + 4EBM | 242 / 958 | 138 / 551 | 80 / 319 | 49 / 197 | 30 / 121 | |
| 5PX 3000 | 68 | 39 | 23 | 13 | 7 | 4 |
| 5PX 3000 + 1 EBM / + 4EBM | 255 / 950 | 146 / 546 | 86 / 323 | 54 / 201 | 33 / 124 | 22 / 84 |
| Battery management | ABM® & Temperature compensated charging method (user selectable), Automatic battery test, deep discharge protection, automatic recognition of external battery units | | | | | |

| | | | | |
|---|---|---|---|---|
| **Interfaces** | | | | |
| Communication ports | 1 USB port + 1 serial RS232 port + 1 mini-terminal block for Remote ON/OFF + 1 mini-terminal block for Remote Power OFF + 1 mini-terminal block for output relay | | | |
| Communication slot | 1 slot for Network M2 (included in Netpack version), INDGW-M2 or Relay-MS cards | | | |
| **Operating conditions, standards and approvals** | | | | |
| Operating temperature | 0 to 40°C | | | |
| Noise level | <40 dB @ typical load | | | |
| Safety | IEC/EN 62040-1, UL1778, CSA22.2 | | | |
| EMC, Performance | IEC/EN 62040-2, FCC Class B, CISPR22 class B | | | |
| Approvals | CE / CB report (TUV) / cTUVus / EAC / UKCA / Ukr / Cm | | | |
| **Dimensions W x D x H / Weight** | | | | |
| UPS Dimensions (mm) | 438x448x85.5 | 438x448x85.5 | 438x603x85.5 (RT2U)<br>438x483x129 (RT3U) | 438x603x85.5 (RT2U)<br>438x483x129 (RT3U) |
| UPS Weight (kg) | 19.6 | 22.4 | 28.2 (RT2U) / 27.5 (RT3U) | 31.7 (RT2U) / 31.1 (RT3U) |
| EBM dimensions (mm) | 438x448x85.5 | 438x448x85.5 | 438x603x85.5 (RT2U)<br>438x483x129 (RT3U) | 438x603x85.5 (RT2U)<br>438x483x129 (RT3U) |
| EBM weight (kg) | 27.8 | 27.8 | 40.4 (RT2U) / 39.7 (RT3U) | 40.4 (RT2U) / 39.7 (RT3U) |
| **Customer service & support** | | | | |
| Warranty | 3 years on electronics, 2 years on battery (3 years full warranty upon registration) | | | |

* 5% derating @ 200V.
** Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

| Part numbers* | 1000 | 1500 | 2200 | 3000 |
|---|---|---|---|---|
| UPS RT2U | 5PX1000IRT2UG2 | 5PX1500IRT2UG2 | 5PX2200IRT2UG2 | 5PX3000IRT2UG2 |
| UPS RT2U with Network card** | 5PX1000IRTNG2 | 5PX1500IRTNG2 | 5PX2200IRTNG2 | 5PX3000IRTNG2 |
| UPS RT3U | | | 5PX2200IRT3UG2 | 5PX3000IRT3UG2 |
| EBM | 5PXEBM48RT2UG2 | 5PXEBM48RT2UG2 | 5PXEBM72RT2UG2 (RT2U) / 5PXEBM72RT3UG2 (RT3U) | |
| 2 m battery connection cable | EBMCBL48RT | EBMCBL48RT | EBMCBL72 | EBMCBL72 |

* All 5PX UPS and EBM are delivered with rack kit.
** Network Management Card included as standard in Netpack versions.

**Eaton Industries Manufacturing GmbH**
Electrical Sector EMEA
Route de la Longeraie 7
1110 Morges, Switzerland
Eaton.eu

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