Small and Medium Datacenter

# Eaton 9PX Gen2 UPS

## Power Up: Where Efficiency Meets Innovation!

Eaton's 9PX Gen2 5-11kW UPS further strengthens our proven 9PX power protection solution through advanced technology upgrades and customer-centric enhancements.

9PX Gen2 delivers best-in-class power management and battery backup for critical equipment in data centres, distributed IT, edge networks, network closets and server rooms.

### Shift to next-level efficiency

**Save on energy and cooling costs** thanks to the latest generation of silicon carbide (SiC) components that help make for **market-leading efficiency of up to 97.2%** in the 11kW unit.

**Reduce your footprint** with unmatched power density of up to **11kW in 4U and 6kW in 3U format**. Energy Star-qualified, 9PX G2 delivers **11% more power than its predecessor.**

### Experience the flexibility of new combo C39 outlets

Data centre designers have traditionally faced a guessing game when specifying the required number of C13 (10 A) and C19 (16 A) outlets.

The 9PX Gen2 solves this with **flexible combo C39 outlets that securely connect both C14 and C20 power cords.**

### Make remote your new normal

**Manage your install base remotely** including UPS settings and firmware upgrades. **Connect to Eaton monitoring solutions** via the industry-leading cybersecure Gigabit Network Card that comes as standard.

**Integrate 9PX Gen2 UPS systems** smoothly with digital solutions from our **Brightlayer Data Centers suite**. Set up **sequential start-ups, prioritise shutdown** of nonessential equipment to maximise runtime, **remotely reboot** locked-up equipment.

### Get ready for a revolution in battery management

Eaton's new **ABM+ technology uses predictive analytics** to better pinpoint battery health and the best time for easy, hot-swap replacement based on actual usage and conditions.

This **prevents unexpected downtime and the unnecessary expense** of replacing too soon. Optimised ABM+ charging **also increases battery lifespan by up to 50%.**

### Peace of mind. Guaranteed.

The 9PX Gen2 comes with a **three-year warranty on electronic components and a two-year warranty on batteries** (full three-year upon registration).

You also have the option to extend warranty coverage for up to seven years, providing long-term protection and support for your investment.

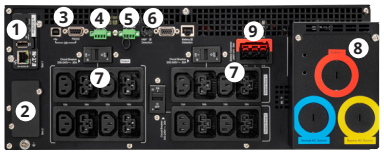
**Learn more:**

Eaton 9PX Gen2 UPS

Powering Business Worldwide

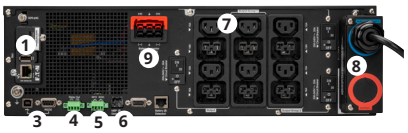
**Eaton 9PX11KIRTNG2**

1. Graphical LCD display with LED Status bar
   - Clear information on UPS status and measurements
   - Enhanced configuration capabilities Available in 7 languages
2. Panel for batteries replacement (Hot-swappable)



**Eaton 9PX11KIRTNG2**

1. Cybersecured Gigabit Network card (Network –M3)
2. Communication card slot (8 & 11kVA models only)
3. USB & Serial ports
4. Relay output ports (2 outputs)
5. RPO & ROO ports



**Eaton 9PX6KIRTNG2**

6. MBP detection port
7. IEC ouputs (including C39 outlets, energy metering and 2 groups of remote-controlled sockets)
8. Input/ouput connection
9. External battery (EBM) connector

## Technical Specifications

| | 5kVA | 6kVA | 8kVA | 11kVA |
|---|---|---|---|---|
| Rating (kVA/kW) | 5kVA/5kW | 6kVA/6kW | 8kVA/8kW | 11kVA/11kW |
| **Electrical Characteristics** | | | | |
| Technology | On-line double conversion with Power Factor Correction (PFC) system | | | |
| Nominal voltage | 200/208/220/230/240V | | | |
| Input voltage range | 176-276V without derating (up to 100-276V with derating) | | | |
| Output voltage / THDv | 200/208/220/230/240V +/- 1%; THDv <1% | | | |
| Input frequency range / THDI | 40-70Hz, 50/60Hz autoselection, frequency converter as standard, THDI < 3% | | | |
| Efficiency | Up to 96.7% in Online mode | | Up to 97.2% in Online mode | |
| Crest factor/short circuit current | 3:1 / 90A | 3:1 / 90A | 3:1 / 120A | 3:1 / 150A |
| Overload capacity | 102%-125%: 10min, 125%-150%: 30s, >150%: 0.5s | | | |
| **Connections** | | | | |
| Input | Terminal block (up to 10 mm2) | | Terminal block (up to 16mm2) | |
| Outputs | Terminal block + 6 C39 + 6 C13 (2 controlled groups) | | Terminal block + 8 C39 + 8 C13 (2 controlled groups) | |
| Outputs with HotSwap maintenance Bypass | Terminal block + 3 C39 + 2 C13 | | Terminal block + 4 C39 | |

| **Batteries** | | | | | | |
|---|---|---|---|---|---|---|
| Typical backup times* | 1000W | 2000W | 4000W | 6000W | 8000W | 10000W |
| 5kVA/+1EBM/+4EBM | 31/113/384 | 13/52/185 | 5/22/86 | | | |
| 6kVA/+1EBM/+4EBM | 31/113/384 | 13/52/185 | 5/22/86 | 2.5/13/53 | | |
| 8kVA/+1EBM/+4EBM | 82/180/515 | 38/85/235 | 15/37/111 | 8.5/22/70 | 5.5/15/51 | |
| 11kVA/+1EBM/+4EBM | 82/180/515 | 38/85/235 | 15/37/111 | 8.5/22/70 | 5.5/15/51 | 4/11/39 |
| Battery management | ABM+ (Predictive battery life) & Temperature compensated charging method , 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 mini terminal blocks (Dry contacts, 2 inputs, 2 outputs) | | | |
| Communication Slot | 1 slot with Network-M3 card included | | 2 slots, 1 with Network-M3 card included, 1 for optional cards (INDGW-M2, Relay-MS, INDRELAY-MS) | |
| **Operating conditions, standards and approvals** | | | | |
| Operating temeprature | 0 to 40°C continuous | | | |
| Noise level** | 38db | 38db | 38db | 38db |
| 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 (except BP versions of the UPS) | | | |
| **Dimensions W x H x D / Weight** | | | | |
| UPS | 440(19") x 130(3U) x 684 mm/43.1kg | 440(19") x 130(3U) x 684mm/43.1kg | 440(19") x 174(4U) x 725mm/78.8kg | 440(19") x 174(4U) x 725mm/78.8kg |
| EBM | 440(19") x 130(3U) x 636mm/65.7kg | 440(19") x 130(3U) x 636mm/65.7kg | 440(19") x 130(3U) x 670mm/62kg | 440(19") x 130(3U) x 670mm/62kg |
| **Customer Service & Support** | | | | |
| Warranty | 3 years warranty on electronics, 2 years on batteries (3 years full warranty upon registration) | | | |

* Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

**Typical noise level (load level below 66% and ambient temperature below 30°C)

| **Parts Numbers** | **9PX G2 5kVA** | **9PX G2 6kVA** | **9PX G2 8kVA** | **9PX G2 11kVA** |
|---|---|---|---|---|
| UPS with Network card and rack kit | 9PX5KIRTNG2 | 9PX6KIRTNG2 | 9PX8KIRTNG2 | 9PX11KIRTNG2 |
| UPS with HotSwap MBP, Network card and rack kits | 9PX5KIRTNBPG2 | 9PX6KiRTNBPG2 | 9PX8KIRTNBPG2 | 9PX11KiRTNBPG2 |
| EBM with rack kit | 9PXEBM180RT3UG2 | 9PXEBM180RT3UG2 | 9PXEBM240RT3UG2 | 9PXEBM240RT3UG2 |
| HotSwap Maintenance Bypass | MBP6KIG2 | MBP6KIG2 | MBP11KIG2 | MBP11KIG2 |
| 2m battery connection cable | EBMCBL180RT | EBMCBL180RT | EBMCBL240RT | EBMCBL240RT |
| Battery Integration System | BINTSYS | BINTSYS | BINTSYS | BINTSYS |

Powering Business Worldwide

**Eaton**
EMEA Headquarters
Route de la Longeraie 7
1110 Morges, Switzerland
eaton.com

© 2025 Eaton
All Rights Reserved
Publication No. TD153035EN
April 2025

Eaton is a registered trademark of Eaton.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.