

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.

# EATON

Powering Business Worldwide

Learn more:



Eaton 9PX Gen2 UPS



Eaton 9PX11KIRTNG2

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



Eaton 9PX11KIRTNG2

- Cybersecured Gigabit Network card (Network -M3)
- Communication card slot (8 & 11kVA models only)
- USB & Serial ports
- Relay output ports (2 outputs)
- RPO & ROO ports



Eaton 9PX6KIRTNG2

- MBP detection port
- IEC outputs (including C39 outlets, energy metering and 2 groups of remote-controlled sockets)
- Input/output connection
- 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 mm <sup>2</sup> )                                                                                                                                    |                                   | Terminal block (up to 16mm <sup>2</sup> )            |                                                                                                     |           |         |
| 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,<br>1 for optional cards (INDGW-M2, Relay-MS, INDRELAY-MS) |           |         |
| Operating conditions, standards and approvals                                                             |                                                                                                                                                                               |                                   |                                                      |                                                                                                     |           |         |
| Operating temepature                                                                                      | 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         |

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Publication No. TD153035EN  
April 2025

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