# Power Xpert 9395 High Performance UPS

## 600V and 575V

### Lowest total cost of ownership in the industry

- Energy Saver System (ESS) provides 99 percent efficiency without compromising reliability
- Lowers operational costs by delivering up to 96 percent efficiency in double-conversion mode
- Offers maximized efficiency in double-conversion mode for light loads using Variable Module Management System (VMMS)
- Reduces HVAC costs by producing 37 percent less heat than the leading competitive solution*
- With 10 percent more power than the leading competitor, the 9395 helps multi-tenant data centers increase monthly revenue by up to $52,000**
- Delivers 100 percent conditioned, perfect sine-wave output by isolating output power from all input power anomalies
- Eliminates the cost of load bank rentals and minimizes burn-in testing energy costs with the Easy Capacity Test

*Comparison at 750 kVA rating

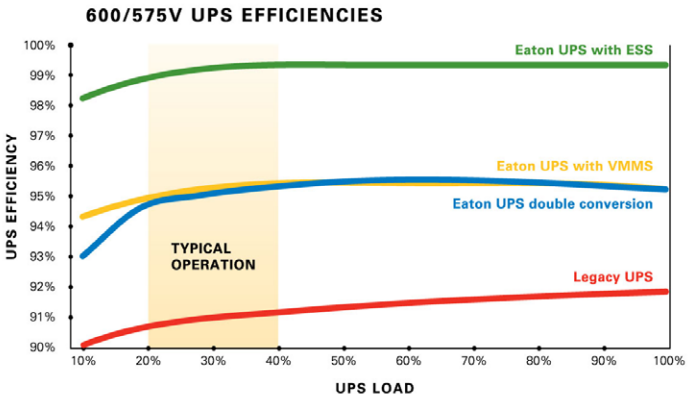
**Quantified using a rack holding 40 servers with a monthly revenue of up to $1,300 per server

### High reliability and robust manageability

- Provides unity power factor plus capabilities, which allows the UPS to supply the reactive current for non-power factor corrected loads without the need for derating
- When at or below 50-75 percent capacity, the 9395 high performance uninterruptible power modules (UPMs) automatically act as N+1 redundant systems, saving the cost and space required for separate redundant UPS and battery systems
- Handles up to 0.9 leading load power factors without de-rating UPS capacity
- HotSync® patented load-sharing technology enables parallel operating of static converters without communication for sync or loadshare signals
- At-a-glance detection of power module status with optional LED lights

### Scalability and flexibility

- An additional power module can be added in the field, so capacity can flex to match data center growth
- Layout can be chosen to suit installation, such as back-to-back, L-shaped or integrated into switchgear
- Preferred bypass topology can be centralized or distributed and additional modules can be added as power load increases
- Centralized multi-module paralleled 9395 systems are supported by the Eaton System Bypass Module (SBM)
- More than 90 percent of materials used can be recycled, decreasing end-of-life impact




### ESS: How is it different than Eco mode?

- **Instantaneous action:** Less than two milliseconds transition time makes the UPS reaction time invisible to IT loads
- **Inherent surge suppression:** ESS provides transient suppression within the UPS – loads are protected from lightning events, even in ESS
- **Fault discrimination:** In a short circuit condition, the UPS detects the location of a fault (upstream or downstream) and reacts appropriately and instantly to protect the critical load

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# Technical specifications:

| UPS rating (unity power factor 1.0) | | | | | |
|---|---|---|---|---|---|
| kVA | 675 | 750 | 825 | 1000 | 1100 |
| kW | 675 | 750 | 825 | 1000 | 1100 |

| General characteristics | |
|---|---|
| Efficiency | 99% in Energy Saver System (ESS)<br>(up to 96% in double conversion) |
| Parallel capability | 4 UPS units maximum for distributed bypass and<br>8 UPS units maximum with SBM |
| Max modules per size | Up to 4 modules, 825kVA/kW and 1100kVA/kW |
| Audible noise | As low as 75dBA @ 1 meter* |
| Altitude (max) | 1000m at 40ºC (104ºF) |
| N+1 redundancy capable | Yes |
| Field upgradeable | Yes |
| System bypass module | Included |

| Input characteristics | |
|---|---|
| Voltage | 600V and 575V |
| Voltage range | +10% / -15% |
| Frequency range | 45-65 Hz |
| Power factor | 0.99 (minimum) |
| Input current distortion | <3.5% (no input filter required) |
| Soft start capability | Yes |
| Internal backfeed protection | Yes |

| Output characteristics | |
|---|---|
| Voltage | 600V and 575V |
| Regulation | ±1% |
| Inverter | PWM with IGBT switching |
| Voltage THD | <2% (100% linear load); <5% (non-linear load) |
| Load power factor range | 0.9 leading to 0.9 lagging |

| Battery | |
|---|---|
| Battery types | VRLA, AGM, wet cell |
| Battery voltage | 480V |
| Temperature compensation | Optional |
| Charging method | ABM technology or float, selectable |

| Dimensions and weights | W"/mm x D"/mm x H"/mm | lb (kg) |
|---|---|---|
| 675, 750, 825 kW kVA | 195/4953 x 34.4/873.76 x 74/1879.6 | 10050 (4559) |
| 675, 750, 825 kW kVA<br>+1 redundant | 224/5689.6 x 34.4/873.76 x 74/1879.6 | 11550 (5239) |
| 1000, 1100 kW kVA | 224/5689.6 x 34.4/873.76 x 74/1879.6 | 11550 (5239) |
| Field upgrade module,<br>275 kVA/kW | 29/736.6 x 34.4/873.76 x 74/1879.6 | 1037 (470) |

| General characteristics | |
|---|---|
| Control panel (LCD) | 10-inch color touchscreen with LED panel |
| Battery startup | Standard |
| Frequency conversion | Standard |
| Multi-language | Standard |
| Building alarm inputs | 5 (galvanic isolated) |

**Assumes operation in nominal voltage, no battery charging and <60% load*

| Options |
|---|
| External maintenance bypass |
| PDU, RPP and STS |
| Maintenance bypass module, matching cabinet, 2/3/4 breaker |
| DC disconnects |
| Human Machine Interface (HMI) designs for monitoring of connected equipment |
| 65 or 100 kAIC input breakers |
| LED lights for at-a-glance status of UPM |

| Certifications | |
|---|---|
| Safety | UL1778, cUL |
| EMC | IEC 62040-2, C3 limits |

**Remote monitoring and management**

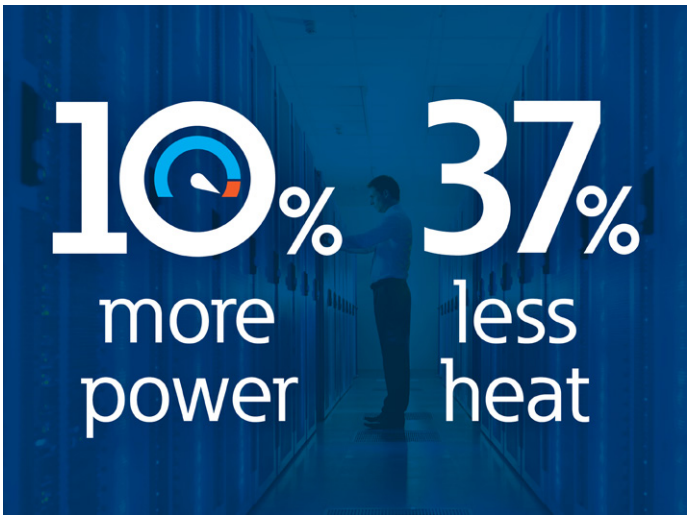
PredictPulse™ is a monitoring and management subscription service that collects and analyzes data from connected power infrastructure devices, providing Eaton with the insight needed to make recommendations and take action on your behalf. PredictPulse is included with the 9395 high performance UPS model for the first year at no-charge along with a PXGX-UPS card and Environmental Monitoring Probe (connectivity parts are required). Eaton.com/PredictPulse

**Communications**

Software compatibility: Software and Power Xpert Reporting
Communications cards: Four communication bays standard. The following connectivity options can be installed at any time:
- PXGX-UPS card
- ModBus RTU card
- AS/400 Relay card
- Industrial Relay card
- Powerware HotSync CAN Bridge card
- Environmental Monitoring Probe (included)

Remote inputs/outputs: Five building alarm inputs and one summary alarm contact (5A @ 120V) standard
Remote monitor panel: Eight backlit status indicator lamps plus an audible horn

*1. Due to continuing improvements, specifications are subject to change without notice.*

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For more information on the 9395, visit **Eaton.com/9395**