

# Power Xpert 9395 high performance UPS

200–1200 kW



## Lowest total cost of ownership in the industry

- Energy Saver System (ESS) provides 99 percent efficiency without compromising reliability, by suspending power modules when double conversion is not required
- Lowers operational costs by delivering up to 97 percent efficiency in double-conversion mode
- Offers maximized efficiency in double conversion down to extremely light loads using Variable Module Management System (VMMS)
- Reduces HVAC costs by producing >33 percent less heat
- With up to 20 percent more power in the same footprint, the resulting 50 kW additional real power allows users to power 100 more servers, allowing for up to \$120,000 in additional revenue monthly\*
- 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

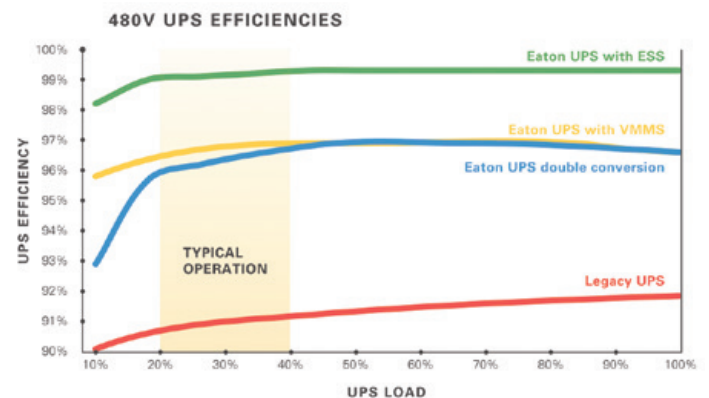
\*Quantified by estimating monthly revenue of \$1,200 per server

## 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

## Scalability and flexibility

- Number of power modules per UPS can be specified, 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

# Technical specifications:

## UPS rating (unity power factor 1.0)

kVA/kW	200/200 500/500 825/825	250/250 550/550 900/900	275/275 600/600 1000/1000	300/300 675/675 1100/1100	400/400 750/750 1200/1200
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## General characteristics

Efficiency	99% in Energy Saver System (ESS) (up to 97% (480V) and 96% (600V and 400V) in double-conversion)
Parallel capability	4 UPS units maximum for distributed bypass and 8 UPS units maximum with SBM
Max modules per size	Up to 2 modules, 300 kW Up to 3 modules, 600 kW Up to 4 modules, 900/1200 kW
Audible noise	75dBA @ 1 meter**
Altitude (max)	1000m at 40 degree C (104 degree F) 1000m at 35 degree C (95 degree F) when UPM capacity is above 275 kW Field upgrade module,
N+1 redundancy capable	Yes
Field upgradeable	Yes
System bypass module	Included

## Input characteristics

Voltage	480V standard; 600/575V and 400/415V optional
Voltage range	+10% / -15%
Frequency range	45–65 Hz
Power factor	0.99 (minimum)
Input current distortion	<3% (no input filter required)
Soft start capability	Yes
Internal backfeed protection	Yes

## Output characteristics

Voltage	480V standard; 600/575V and 400/415V optional
Regulation	±1%
Inverter	PWM with IGBT switching
Voltage THD	<2% (100% linear load); <5% (non-linear load)
Load power factor range	Up to a .9 power factor leading without derating
Overload	110% for 10 minutes, 125% for 2 minutes, 150% for 15 seconds

## Battery

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

## Dimensions and weights (480V and 400V\* system)

		480V	400V
200, 250, 275, 300 kW	52.5" w x 34.4" d x 74" h	2150 lb (975 kg)	1886 lb (857 kg)
200-300 kW redundant	73.8" w x 34.4" d x 74" h	3184 lb (1447 kg)	N/A
Field upgrade module, 300 kW	29" w x 34.4" d x 74" h	1037 lb (470 kg)	N/A
400, 500, 550, 600 kW	73.8" w x 34.4" d x 74" h	3184 lb (1447 kg)	3184 lb (1447 kg)
400-600 kW redundant	103" w x 34.4" d x 74" h	4221 lb (1918 kg)	N/A
675, 750, 825, 900 kW	141" w x 34.4" d x 74" h	5236 lb (2375 kg)	5236 lb (2375 kg)
675, 750, 825, 900 kW +1 redundant	170.1" w x 34.4" d x 74" h	6523 lb (2959 kg)	N/A
1000, 1100, 1200 kW	170.1" w x 34.4" d x 74" h	6523 lb (2959 kg)	6620 lb (3003 kg)

## Dimensions and weight (575V/600V\* system)

200, 225, 250, 275 kW/kVA	102.9" w x 34.4" d x 74" h	4354 lb (1975 kg)
200–300 kW/kVA +1 redundant	126.2" w x 34.4" d x 74" h	5683 lb (2578 kg)
400, 450, 500, 550 kW/kVA	126.2" w x 34.4" d x 74" h	5683 lb (2578 kg)
400–550 kW/kVA +1 redundant	155.2" w x 34.4" d x 74" h	6722 lb (3049 kg)
675, 750, 825 kW/kVA	195" w x 34.4" d x 74" h	10050 lb (4559 kg)
675, 750, 825 kW/kVA +1 redundant	224" w x 34.4" d x 74" h	11550 lb (5239 kg)
1000, 1100 kW/kVA	224" w x 34.4" d x 74" h	11550 lb (5239 kg)
Field upgrade module, 275 kW	29" w x 34.4" d x 74" h	1037 lb (470 kg)

## General characteristics

Control panel (LCD)	Color touchscreen
Battery startup	Standard
Frequency conversion	Standard
Multi-language	Standard
Building alarm inputs	5 (galvanic isolated)

## 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	
100 kAIC input breakers	

## Certifications

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

## PredictPulse™ remote monitoring and management service

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 for the first year at no-charge along with a PXGX-UPS card and Environmental Monitoring Probe (connectivity parts are required).

## 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 (included with PredictPulse activation)
- ModBus RTU card
- AS/400 Relay card
- Industrial Relay card
- Powerware HotSync CAN Bridge card
- Environmental Monitoring Probe (included)
- BACnet IP communication protocol supported

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

\*\*Assumes operation in nominal voltage, no battery charging and <60% load  
 1. Due to continuing improvements, specifications are subject to change without notice.

Notes:  
 \*600V and 400V are 275 kW UPM max capacity.

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For more information on the 9395, visit [Eaton.com/9395](http://Eaton.com/9395)