Power Xpert 9395 High Performance UPS

200-1200kW

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

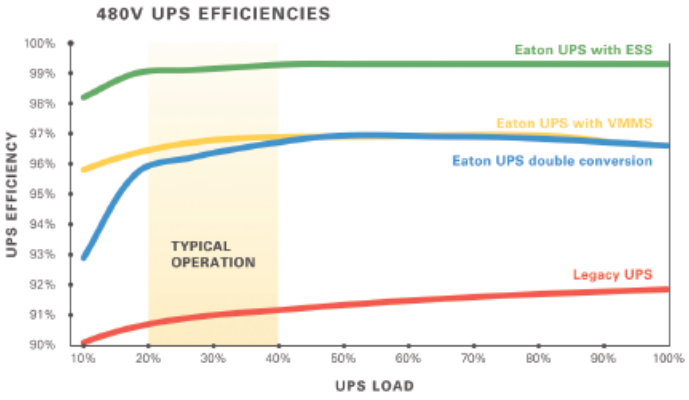
*Quantified by estimating monthly revenue of $1,200 per server

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
- At-a-glance detection of power module status with optional LED lights

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

EATON
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ENERGY STAR

***Includes 675, 750, 825, 900, 1000, 1100 and 1200 kW models**

An Eaton Green Solution

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
General characteristics					
Efficiency	99% in Energy Saver System (ESS) (up to 97% (480V) and 96% (600V) 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, 600kW Up to 4 modules, 900/1200kW				
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 275kW				
N+1 redundancy capable	Yes				
Field upgradeable	Yes				
System bypass module	Included				
Input characteristics					
Voltage	480V standard; 600/575V optional				
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	480V standard; 600/575V 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				
Battery voltage	480V				
Temperature compensation	Optional				
Charging method	ABM technology or float, selectable				

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

Dimensions and weight (575V/600V* system)		
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, 275kW/kVA	29"w x 34.4"d x 74"h	1037 lb (470 kg)

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)

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

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
- 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

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

Notes:
**600/575V available in 675, 750, 825, 1000, 1100 kW ratings.*

Powering Business Worldwide

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