

Power Xpert 9395 UPS

225 - 1100 kVA



An Eaton Green Solution

Due to outstanding green performance, the Power Xpert 9395 has earned the "An Eaton Green Solution"™ label

Advanced power protection for:

- Big data centers and server farms
- Financial services
- Building management
- Telecommunications
- Hospitals



EATON

Powering Business Worldwide

Double conversion UPS

Premium power performance

- Double conversion provides the highest level of protection available by isolating the output power from all input anomalies.
- With a transformer-free design and sophisticated sensing and control circuitry the 9395 UPS delivers an efficiency of up to 94,5%.
- Maximised UPS energy efficiencies with Energy Advantage Architecture (EAA): Variable Module Management System (VMMS) optimises system efficiency at low load levels and Energy Saver System (ESS) allows dramatic increase in UPS efficiency without sacrificing load protection.
- Active power factor correction (PFC) provides 0,99 input power factor and below 3-5% ITHD (depends on utility UTHD), thus eliminating interference with other critical equipment in the same network and enhancing compatibility with generators.
- The UPS is optimized for protecting modern 0,9 p.f. rated IT equipment without the need to oversize.

True reliability

- Patented Powerware Hot Sync® technology makes possible to parallel up to five UPSs to increase availability or add capacity. The technology enables load sharing without any communication line, thus eliminating single point of failure.
- Robust manageability with 10-inch color touchscreen display, superior control and connectivity and with an extensive service offering.
- ABM® technology charges batteries only when necessary, preventing batteries corrosion and prolonging batteries service life by up to 50%.

Extensive configurability

- The 9395 is a completely integrated system that incorporates multiple power modules and system switchgear on factory pre-wired bases.
- A multilingual graphical LCD display makes possible to monitor the UPS status easily.
- Wide software and connectivity options provide monitoring, management and shutdown capabilities over network

Cost savings and sustainability

- High system efficiency reduces utility cost, extends battery run times and ensures cooler operating conditions.
- Compared to traditional UPS design, a transformer-free UPS is only 50% the weight and occupies just 60% the footprint, thus reducing impact on shipping.
- The new design requires 50-80% less energy in manufacturing due to less energy needed for testing thanks to Easy Capacity Test.
- Pre-wired configuration reduces cabling busbar costs and installation time. Front accessible design minimizes installation costs and saves valuable data centre space.
- A single technical platform used in Eaton's three-phase UPS products guarantees easy upgrades and similarity in service, thus lowering total cost of ownership.
- More than 90% of the materials can be recycled, further decreasing end-of-life impact.

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TECHNICAL SPECIFICATIONS

UPS output power rating (0,9 p.f.)	
kVA	225 275 450 550 675 825 900 1100
kW	204 250 408 500 612 750 816 1000
General	
Efficiency in double conversion mode (full load)	>94% (According to IEC 62040-3)
Efficiency in double conversion mode (half load)	>93% (According to IEC 62040-3)
VMMS (double conversion)	significantly increased efficiency at low loads
Efficiency in Energy Saver System (ESS)	up to 99%
Distributed parallelling with Hot Sync technology	5 + 1
Internal N+1 redundance capable	in 550 : 275 kVA in 825 : 550 kVA in 1100 : 825 kVA
Field upgradeable	yes
Inverter/rectifier topology	transformer-free IGBT with PWM
Audible noise	<76 dB; <81 dB (825 and 1100 kVA)
Altitude (max)	1000 m without derating (max 2000 m)
Input	
Input wiring	3 ph + N + PE
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz
Input voltage range	+15% / -15%, +10% / -10% for bypass
Input frequency range	45-65 Hz
Input power factor	0,99
Input ITHD	< 3-5% on nominal load, depending on the utility UTHD
Soft start capability	Yes
Internal backfeed protection	Yes, standard
Output	
Output wiring	3 ph + N + PE
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz
Output UTHD	<3% (100% linear load); <5% (reference non linear load)
Output power factor	0,9 (e.g. 250 kW at 275 kVA)
Permitted load power factor	0,7 lagging - 0,8 leading
Overload on inverter	10 min 100-110%; 30 sec 110-125%; 10 sec 125-150%; 300 ms >150%
Overload when bypass available	Continuous <115%, 20 ms 1000% Note! Bypass fuses may limit the overload capability
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)

*10-inch display only as an optional feature in 275 and 550 kVA products

Battery	
Type	VRLA, AGM, Gel, Wet Cell (NiCd batteries and flywheel on request)
Charging method	ABM technology or Float
Temperature compensation	with EMP
Battery nominal voltage (lead-acid)	480 V (40 x 12 V, 240 cells)
Charging current / Model	275 550 825 1100
Default A	38 76 114 152
Max* A	83 166 249 332

*Limited by maximum UPS input current rating

Dimensions and weights		
225 kVA, 275 kVA	1350 x 880 x 1880 mm (wx dxh)	830 kg
225, 275 kVA redundant	1890 x 880 x 1880 mm	1430 kg
450, 500, 550 kVA	1890 x 880 x 1880 mm	1430 kg
450, 550 kVA redundant	2630 x 880 x 1880 mm	2030 kg
Field upgrade module, 225 or 275 kVA	740 x 880 x 1880 mm	600 kg
675, 825 kVA	3710 x 880 x 1880 mm	2520 kg
675, 825 kVA + 1 redundant	4450 x 880 x 1880 mm	3120 kg
1100 kVA	4450 x 880 x 1880 mm	3120 kg

Options – Eaton 9395 SBM

9395 SBM ratings					
Model	2000	2500	3200	4000	5000
Rating (A)	2000	2500	3200	4000	5000

Dimensions and weights		
SBM 2000	2200 x 1032 x 1880 mm (wx dxh)	1400 kg
SBM 2500	2200 x 1032 x 1880 mm	1400 kg
SBM 3200	2200 x 1032 x 1880 mm	1550 kg
SBM 4000	2500 x 1032 x 1880 mm	2400 kg
SBM 5000	2500 x 1032 x 1880 mm	2500 kg

Accessories	
	External battery cabinets with long-life batteries, NiCd batteries and flywheel on request, X-Slot connectivity (Web/SNMP, ModBus/Jbus, Relay, Hot Sync, ViewUPS-X remote display), integrated manual bypass for 225-550 kVA

Communications	
X-Slot	4 communication bays
Serial ports	1 available
Relay inputs/outputs	5/1 programmable

Compliance with standards	
Safety (CB certified)	IEC 62040-1, IEC 60950-1
EMC	IEC 62040-2
Performance	IEC 62040-3

In the interests of continuous product improvement all specifications are subject to change without notice.