Eaton 9395E UPS

200 - 400 kVA



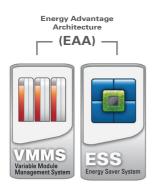


An Eaton Green Solution

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

Advanced power protection for:

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





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 9395E 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 optimised 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.
- The multi-module 9395E can be configured with inherent redundancy – anytime the load is below 50%, the system becomes automatically redundant.
- ABM® technology charges batteries only when necessary, preventing batteries corrosion and prolonging batteries service life by up to 50%.

Extensive configurability

- The 9395E is a completely integrated system that incorporates 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	200	400				
kW	180	360				
General						
	y in doub on mode	le (full load)	>94%			
	y in doub on mode	le (half load)	>93%			
VMMS (double co	nversion)	significantly increased efficiency at low loads			
Efficiency in Energy Saver System (ESS)			up to 99%			
Distributed parallelling with Hot Sync technology			5 + 1			
Internal capable	N+1 redu	ndance	200kVA redundant using 400kVA systems			
Inverter/	rectifier t	opology	transformer-free IGBT with PWM			
Audible noise <78			<78 dB			
Altitude (max)			1000 m without derating (max 2000 m)			
Input						
Input wiring			3 ph + N + PE			
Nominal voltage rating (con- igurable)			220/380, 230/400, 240/415 V 50/60 Hz			
Input vol	tage ranç	je	+15% / -15%, +10% /-10% for bypass			
Input fre	quency r	ange	45-65 Hz			
Input power factor			0.99			
Input ITHD			< 3-5% on nominal load, depending on the utility UTHD			
Soft start capability			Yes			
Output						
Output w	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			
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			
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Battery				
Туре	VRLA, AGM, Gel, Wet Cell			
Charging method	ABM technology or Float			
Temperature compensation	with EMP			
Battery nominal voltage (lead-acid)	480 V	480 V (40 x 12 V, 240 cells)		
Charging current / Model	200	400		
Default A	38	76		
Max* A	83	166		
*Limited by maximum UPS input cu	rrent ratino	J		
Dimensions and weights				
200 kVA	1350 x 8	380 x 1880 mm (wxdxh)	810 kg	
200 kVA redundant	1890 x 8	380 x 1880 mm	1390 kg	
400 kVA	1890 x 8	380 x 1880 mm	1390 kg	
Accessories				
	External battery cabinets with long-life batteries X-Slot connectivity (Web/SNMP, ModBus/Jbus, Relay, Hot Sync, ViewUPS-X remote display)			
Communications				
X-Slot	4 communication bays			
Serial ports	1 available			
Relay inputs/outputs	5/1 programmable			
Compliance with standards				
Safety	IEC 620	IEC 62040-1, IEC 60950-1		
EMC	IEC 62040-2			
Performance	IEC 620	IEC 62040-3		

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