

Power Xpert 9395P UPS

250 - 1200 kVA



Power Xpert 9395P UPS with optional power module status lights

Advanced power protection for:

- Large data centres, infrastructure projects, industrial complexes and other buildings
- Process control equipment
- Healthcare
- Finance and banking infrastructure
- Transportation systems
- Security operations
- Telecommunications installations

Double conversion UPS

10% more power

- 96.3% double conversion efficiency, delivers 10% more power than the previous 9395 UPS.
- Complete isolation of output power from all input power anomalies, to deliver 100% conditioned, perfect sine-wave output – even during severe power disturbance.
- High efficiency even when UPS load levels are low, optimised by Variable Module Management System (VMMS).
- Energy Saver System (ESS) improves efficiency levels to 99% by suspending power modules when double conversion is not required. Switches to double conversion mode in less than 2 milliseconds in event of pre-set input limits being exceeded. Filtering against fast low-energy transients provided by ESS.
- Producing 18% less heat helps reduce the need for cooling. Designed for continuous operation at ambient temperatures up to 40°C without de-rating. Can also deliver safe power in higher temperatures without shutting down.

Ultimate resiliency

- HotSync® patented load-sharing technology enables parallel operating of static converters without communication or load-share signals. Eliminating the communication link eliminates risk of single point of failure.
- One static switch per UPS enables the full bypass capacity to be achieved from day one. Power modules can be added as loads increase.
- Wide power factor range meets rapidly changing load power factor without de-rating.
- Intelligent battery charging through Advanced Battery Management prevents unnecessary charging and significantly retards battery wear rate.

Scalability and flexibility

- Number of power modules per UPS can be specified.
- Layout can be chosen to suit installation: back-to-back, L-shaped etc. Front-accessible design minimises installation costs and saves valuable data centre space.
- Preferred bypass topology can be specified. Additional modules can be added as power load increases.
- Centralised multi-module paralleled 9395P systems are supported by the Eaton System Bypass Module (SBM). Available in ratings from 2000 A to 5000 A as standard, the SBM includes a continuous-duty centralised static switch, backfeed protection device and centralised bypass systems.
- Service disconnect in each power module allows easy maintenance while the UPS is supporting the load in double conversion mode.
- More than 90% of materials used can be recycled, decreasing end-of-life impact.

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Power Xpert 9395P UPS

UPS output power rating	
kVA	250 300 500 600 750 900 1000 1200
kW	250 275 500 550 750 825 1000 1100
General	
Efficiency in double conversion mode (full load)	95.6%
Efficiency in double conversion mode (half load)	96.3%
VMMS (double conversion)	Significantly increased efficiency at low loads
Efficiency in Energy Saver System (ESS)	Up to 99.3%
Distributed parallelling with Hot Sync technology	Up to 7
Internal N+1 redundance capable	In 600 kVA: 300 kVA In 900 kVA: 600 kVA In 1200 kVA: 900 kVA
Field upgradable	Yes
Inverter/rectifier topology	Transformer-free IGBT with PWM
Audible noise	78 dB (300 kVA); <81 dB (600 kVA); <83 dB (900 kVA); <85 dB (1200 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% for 400 V or 415 V +15% / -10% for 380 V +10% / -10% for bypass
Input frequency range	45-65 Hz
Input power factor	0.99
Input ITHD	<3% on nominal load in double conversion mode
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	<2% (100% linear load), <5% (non linear load)
Output power factor	0.9 (300, 600, 900 and 1200 kVA models) 1.0 (250, 500, 750 and 1000 kVA models)
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

Battery	
Type	VRLA, AGM, Gel, Wet Cell
Charging method	Current limited constant voltage charging, or Eaton Advanced Battery Management (ABM)
Temperature compensation	Optional
Battery nominal voltage (lead-acid)	480 V (40 x 12 V, 240 cells)
Charging current / Model	300 600 900 1200
Max* A	120 240 360 480

*Limited by maximum UPS input current rating

Dimensions and weights		
300 kVA	1350 x 880 x 1880 mm (wxhdxh)	830 kg
600 kVA	1890 x 880 x 1880 mm	1440 kg
900 kVA	3710 x 880 x 1880 mm	2680 kg
1200 kVA	4450 x 880 x 1880 mm	3120 kg

Accessories	
	External battery cabinets with long-life batteries, X-Slot connectivity (Web/SNMP, ModBus/Jbus, Relay, Hot Sync, ViewUPS-X remote display), integrated manual bypass for 300 kVA model

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

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

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