

# Power Xpert 9395P UPS

300 - 1200 kW



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 35°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	300      600      900      1200
kW	300      600      900      1200
General	
Efficiency in double conversion mode (full load)	95.5%
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 5 units
Internal N+1 redundance capable	Yes
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% / -9% for 400 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	1.0
Permitted load power factor	0.7 lagging - 0.8 leading
Overload on inverter	10 min 100-110%; 30 sec 110-125%; 10 sec 125-135%; 300 ms >135%
Overload when bypass available	Continuous <115%, 20 ms 1000% Note! Bypass fuses may limit the overload capability

Battery	
Type	VRLA
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
Alternative backup power technologies	Wet cell batteries NiCd batteries Lithium-ion batteries Supercapacitors

\*Limited by maximum UPS input current rating

Dimensions and weights		
300 kVA	1350 x 880 x 1880 mm (wxdxh)	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 and options	
	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, Power Module status LED kit

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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