



ИБП Eaton Power Xpert 9395 Marine UPS 675 kVA - Eaton Power Xpert 9395 Marine - Брошюра, специ

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# Power Xpert 9395 Marine 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:

- Navigation systems
- Emergency lighting
- Computer systems
- General Services



# EATON

Powering Business Worldwide

## Double conversion UPS

### Qualified design for marine and offshore environment

- Compact design for saving space
- Easy to install, mounting rails can be bolted or welded to the deck/bulk head
- IP22 protection class
- Vibration absorbers under and at the back of the cabinet
- Maintenance from the front

### Premium power performance

- Double conversion provides the highest level of protection available by isolating the output power from all input anomalies.
- Active power factor correction (PFC) provides 0,99 input power factor and less than 3-5% ITHD, 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 HotSync® 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 9395 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%.
- Internal automatic static bypass switch.

### Extensive configurability

- Can be used as a frequency converter (50 → 60Hz and 60 → 50Hz) e.g. in shore power applications.
- The 9395 is a completely integrated system than 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

- Up to 99% efficiency with Energy Saver System (ESS) and Variable Module Management (VMMS) technologies enables to reduce energy cost, extend battery run times and ensure cooler operating conditions.
- The new design requires 50-80% less energy in manufacturing due to less energy required for testing and to the smaller configuration.
- Pre-wired configuration enables to reduce cabling busbar costs and installation time. Front accessible design minimizes installation costs and saves valuable data centre space.
- With Easy Capacity Test feature the 9395 can test its entire power train under full load stress without the requirement of an external load.
- A single technical platform used in Eaton's three-phase UPS products guarantee easy upgrades and similarity in service, thus lowering total cost of ownership.

# Power Xpert 9395 Marine UPS 225 - 1100 kVA

## 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% (without transformer)
Efficiency in double conversion mode (half load)	>93% (without transformer)
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
Field upgradeable	yes
Inverter/rectifier topology	transformer-free IGBT with PWM
Audible noise	<76 dB; <81 dB (825 and 1100 kVA)
Colour	RAL 7035

### Input

Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz
With external transformer	e.g. 230, 440, 480, 690 V
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

### Output

Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz
With external transformer	e.g. 230, 440, 480, 690 V
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

### Battery

Type	VRLA, AGM, Gel, Wet Cell (NiCd batteries on request)			
Charging method	ABM technology or Float			
Temperature compensation	Optional			
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	1364 x 1152 x 2158 mm (wxdxh)	1000 kg
225 kVA redundant, 275 kVA redundant	1904 x 1152 x 2158 mm	1600 kg
450, 500, 550 kVA	1904 x 1152 x 2158 mm	1600 kg
450, 550 kVA redundant	2644 x 1152 x 2158 mm	2400 kg
675, 825 kVA	3724 x 1152 x 2158 mm	2920 kg
675, 825 kVA + 1 redundant	4464 x 1152 x 2158 mm	3570 kg
1100 kVA	4464 x 1152 x 2158 mm	3570 kg

### Accessories

External battery cabinets with long-life batteries, NiCd batteries 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

Classification survey report	On request
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\* Depending on the actual load and room ventilation, the height of the unit roof may change.

