

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.

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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% (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 |
|------------------------------|------------|

* Depending on the actual load and room ventilation, the height of the unit roof may change.

