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 lightning
- Computer systems
- General Services

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

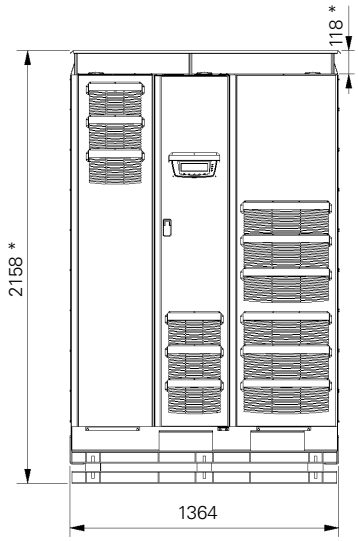
Accessories	
	External battery cabinets with long-life batteries, NiCd batteries on request, X-Slot connectivity (Web/SNMP, ModBus/Jbus, Relay, Hot Sync, ViewUPS-X remote display), integrated manual bypass for 225-550 kVA

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

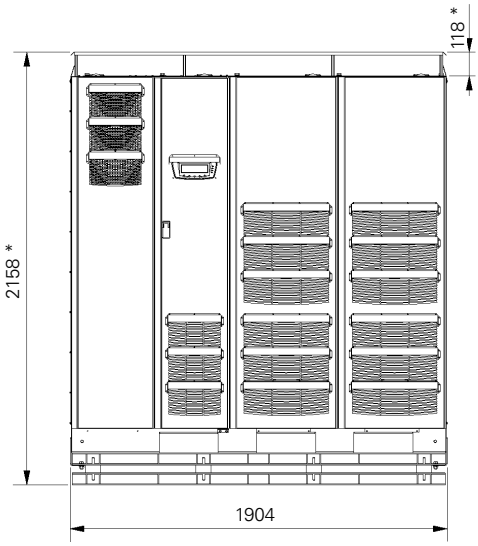
Compliance with standards	
Classification survey report	On request

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

Front view



Front view



Side view