



ИБП Eaton 9390M 40 kVA - Eaton 9390 Marine UPS - Листовка

Постоянная ссылка на страницу: <https://eaton-power.ru/catalog/eaton-9390-marine/eaton-9390m-40-kva/>

# Eaton 9390M UPS

40 - 160 kVA



#### Advanced vessel or rig power protection for:

- Navigation systems
- Emergency lightning
- 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 4,5% 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 four UPSs to increase availability or add capacity. The technology enables load sharing without any communication line, thus eliminating single point of failure.
- 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

- Configurable to frequency converter operation (50 → 60 Hz and 60 → 50 Hz)
- 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

- High level of system efficiency leads to utility cost saving, extension of battery run times and cooler operating conditions within the UPS, which extends the life of components.
- As the compact 9390 can be installed against back and side walls, customers have more location options, installation is faster and easier, deployment costs are lower and more valuable data centre space can be saved for future needs.
- A single technical platform used in Eaton's three-phase UPS products guarantee easy upgrades, similarity or service trainings and documentation, thus lowering total cost of ownership.
- A range of service agreement options can be easily customized for customers needs and budget.
- Eaton uses sustainable materials and highly efficient manufacturing technology, thus generating dramatic savings in carbon footprint as compared to competitive UPS systems.

# Eaton 9390M UPS 40-160 kVA Technical Specifications

## TECHNICAL SPECIFICATIONS

### UPS output power rating (0,9 p.f.)

kVA	40	60	80	100	120	160
kW	36	54	72	90	108	144

### General

Efficiency in double conversion mode (full load)	94% (without transformer)
Efficiency in double conversion mode (half load)	92,5% (without transformer)
Distributed parallelling with Hot Sync technology	6
Field upgradeable	yes
Inverter/rectifier topology	transformer-free IGBT with PWM
Audible noise	<65 dB
Colour	RAL 7035

### Input

Nominal voltage rating (configurable)	380, 400, 415 V 50/60 Hz
With external transformer	e.g. 230, 440, 480, 690 V
Input voltage range	Low -15% at 100% load/-30% at 50% load without battery discharge; High +10%/max +20%
Input frequency range	45-65 Hz
Input power factor	0,99
Input ITHD	less than 4,5%
Soft start capability	Yes
Internal backfeed protection	Yes

### Output

Nominal voltage rating (configurable)	380, 400, 415 V 50/60 Hz
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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. 72 kW at 80 kVA)
Permitted load power factor	0,7 lagging - 0,8 leading

### Battery

Type	Maintenance free VRLA batteries, NiCd
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	40 60 80 100 120 160
Default A	10 20 20 30 30 40
Max* A	20 40 40 60 60 80

\*May be limited by maximum UPS input current rating

### Accessories

External battery cabinets with long-life batteries, X-Slot connectivity (Web/SNMP, ModBus/Jbus, Relay, Hot Sync, ViewUPS-X remote display), Hot Sync parallel tie cabinet, integrated manual bypass up to 80 kVA, external maintenance bypass switch

### Communications

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

### Compliance with standards

Classification survey report On request

## Standard UPS

Description	Rating	Dimensions (HxWxD)	Weight
9390-60-U-M	60 kVA / 54 kW	2022x519x808 (+110) mm	363 kg
9390-80-N-M	80 kVA / 72 kW	2022x519x808 (+110) mm	363 kg
9390-100-U-M	100 kVA / 90 kW	2022x944x808 (+110) mm	485 kg
9390-120-N-M	120 kVA / 108 kW	2022x944x808 (+110) mm	485 kg
9390-120-U-M	120 kVA / 108 kW	2022x944x808 (+110) mm	585 kg
9390-160-N-M	160 kVA / 144 kW	2022x944x808 (+110) mm	585 kg

## Standard external battery

Description	Rating	Dimensions (HxWxD)	Weight
9390-BAT-M-S-40x38Ah	38 Ah	2022x575x808 (+110) mm	740 kg
9390-BAT-M-S-200	53 Ah	2022x575x808 (+110) mm	1216 kg
9390-BAT-M-280	83 Ah	2022x1125x808 (+110) mm	1504 kg
9390-BAT-M-330	94 Ah	2022x1125x808 (+110) mm	1685 kg
9390-BAT-M-500	130 Ah	2022x1125x808 (+110) mm	2248 kg

See runtime from the runtime specification.

