

# Eaton 9SX Marine UPS

1000/3000 VA



DNV-GL type approved 9SX Marine UPS with installation kit and Marine filter.



9SX graphical LCD

#### Advanced protection for:

- Bridge systems
- Navigation systems
- Communication systems
- Small computer and automation systems



#### Online double conversion UPS

Successor of the market-leading 9130 Marine UPS

#### Performance and Availability

- Double-conversion topology. The Eaton 9SX Marine constantly monitors power conditions and regulates voltage and frequency.
- The internal bypass allows service continuity in case of internal fault, a maintenance bypass is also available (as option) for easy replacement of the UPS without powering down critical systems.
- With coated boards and hi-temperature compatibility, 9SX Marine is designed for Marine & Offshore environments.
- Stronger, longer battery life: Eaton ABM® battery management technology uses an innovative three-stage charging technique that extends battery life by up to 50%. 9SX Marine also provides recommended replacement date for batteries.
- DNV-GL type approved UPS (with Installation kit and Marine filter)

#### Manageability

- The new graphical LCD provides clear information on the UPS's status and measurements on a single screen. Enhanced configuration capabilities are also available.
- The 9SX Marine can meter energy consumption. kWh values can be monitored using the LCD or Eaton's Intelligent Power® Software.
- Load segment control enables prioritised shutdowns of non-essential equipment to maximise battery runtime for critical devices.
- 9SX Marine offers Serial, USB connectivity, plus an extra slot for an optional communication card. Eaton's Intelligent Power® Software seamlessly integrates with leading virtualisation environments and cloud orchestrations tools.

#### Flexibility

- Configurable to frequency converter operation (50 -> 60Hz and 60 -> 50Hz), or Marine mode (output frequency follows input frequency).
- Easy to install, mounting rails can be bolted or welded to the deck/bulk head or shelf. Installation kit includes vibration absorbers that are mounted under the UPS cabinet.
- More runtime can be added with up to 4 external hot-swappable battery modules, able to run systems for hours if necessary. The additional battery modules are automatically recognized by the UPS.



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# Eaton 9SX Marine UPS



- 1 Remote Power Off connector (configurable)
- 2 Slot for Management card
- 3 External battery module (EBM) connector with automatic detection (RJ11)
- 4 Relay output

- 5 USB and serial ports
- 6 Input/Output connections with locking system
- 7 Marine filter
- 8 Installation kit (vibration dampers)

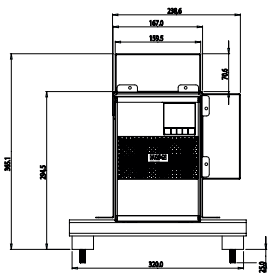
## Technical specifications

|  | 1000 VA  |         |         | 3000 VA  |        |        |
|--|--|---------|---------|--|--------|--------|
| Rating (VA/W)  | 1000 VA/900W   |         |         | 3000 VA/2700W  |        |        |
| Format   | Tower  |         |         |  |        |        |
| <b>Electrical characteristics</b>                    |  |         |         |  |        |        |
| Technology   | On-line double-conversion with Power Factor Correction (PFC) system  |         |         |  |        |        |
| Nominal voltage                                      | 200/208/220/230/240V   |         |         |  |        |        |
| Input voltage range                                  | 190-276V without derating (up to 120-276V with derating)   |         |         | 200-276V without derating (up to 140-276V with derating) |        |        |
| Input frequency range/THDI                           | 40-70Hz, 50/60Hz autoselection, frequency converter mode   |         |         |  |        |        |
| <b>Connections</b>                                   |  |         |         |  |        |        |
| Input  | 1 IEC C14 (10A)  |         |         | 1 IEC C20 (16A)  |        |        |
| Outputs  | 6 IEC C13 (10A) sockets  |         |         | 8 IEC C13 (10A) sockets + 1 IEC C19 (16A) socket         |        |        |
| Switched Outlet Group                                | 2 outlet groups  |         |         |  |        |        |
| <b>Batteries</b>                                     |  |         |         |  |        |        |
| Typical backup times* (minutes)/load                 | 300W   | 500W    | 800W    | 1200W  | 1800W  | 2500W  |
| 9SX 1000   | 24   | 14      | 7       |  |        |        |
| 9SX 1000 + 1 EBM/+ 4 EBM                             | 90/320   | 56/200  | 33/120  |  |        |        |
| 9SX 3000   | 78   | 45      | 29      | 17   | 10     | 6      |
| 9SX 3000 + 1 EBM/+4 EBM                              | 290/1100   | 175/630 | 108/421 | 68/255   | 45/168 | 30/112 |
| Battery management                                   | ABM* or Temperature compensated charging method, automatic battery test, deep discharge protection, automatic EBM recognition. |         |         |  |        |        |
| <b>Communication</b>                                 |  |         |         |  |        |        |
| Communication ports                                  | 1 USB port + 1 serial RS232 port + 1 mini-terminal block for Remote Power Off + 1 mini-terminal block for Output relay         |         |         |  |        |        |
| Communication slot                                   | 1 slot for Network-M2, INDGW-M2 or Relay-MS cards  |         |         |  |        |        |
| <b>Operating conditions, standards and approvals</b> |  |         |         |  |        |        |
| Operating temperature                                | 0 to 40°C  |         |         |  |        |        |
| Typical noise level                                  | 41dB   |         |         | 45dB   |        |        |
| Safety   | IEC/EN 62040-1, UL 1778, CSA 22.2  |         |         |  |        |        |
| EMC  | IEC/EN 62040 -2 , FCC Class B, CISPR22 Class B   |         |         |  |        |        |
| Approvals & marking                                  | DNV-GL Type approved /CE /CB report (TUV) / cULus / EAC / RCM  |         |         |  |        |        |
| <b>Dimensions H x W x D in mm/Weight</b>             |  |         |         |  |        |        |
| UPS  | 252x160x387/15kg   |         |         | 346x214x412/34kg   |        |        |
| EBM  | 252x160x387/19kg   |         |         | 346x214x412/48.7kg                                       |        |        |
| <b>Customer service and support</b>                  |  |         |         |  |        |        |
| Warranty   | 3 years  |         |         |  |        |        |

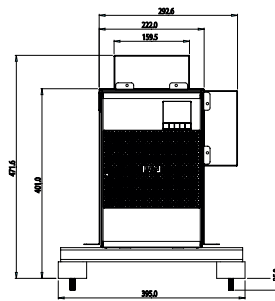
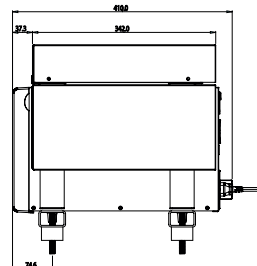
\* Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

| Parts numbers               | 9SX 1000VA Marine | 9SX 3000VA Marine |
|-----------------------------|-------------------|-------------------|
| UPS Tower                   | 9SX1000IM         | 9SX3000IM         |
| Installation kit *          | 9SXIK1KI          | 9SXIK3KI          |
| Marine filter *             | 9SXM3KI           | 9SXM3KI           |
| EBM Tower **                | 9SXEBM36T         | 9SXEBM96T         |
| 2m battery connection cable | EBMCBL36T         | EBMCBL96T         |

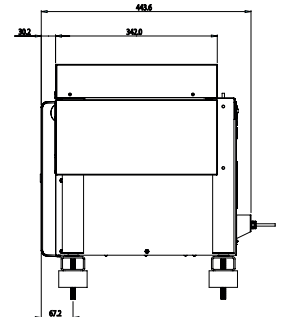
\* Installation kit and Marine filter are required for DNV-GL type approval, \*\* 2m battery cable required to install EBM with a 9SX Marine UPS.



9SX1000IM



9SX3000IM



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