

# Eaton 9SX UPS

700/1000/1500/2000/3000 VA



9SX Rack & Tower models



9SX graphical LCD

## Advanced protection for:

- IT, Networking, Storage and Telecom
- Infrastructure, Industrial and Medical



## Online double conversion UPS Successor of Eaton 9130 UPS

### Performance and Availability

- Double-conversion topology. The Eaton 9SX 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 a 0.9 power factor the 9SX delivers 28% more power than UPS in its class. It powers more servers than other UPSs with equivalent VA ratings and lower power factors.
- 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 also provides recommended replacement date for batteries.

### 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 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 nonessential equipment to maximise battery runtime for critical devices.
- 9SX 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

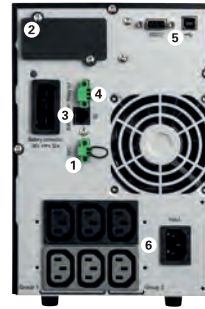
- One platform, two factors, dozens of choices. Up to 3000 VA of UPS power is packed into only 2U of rack space. The tower option is about the size of a modern, compact PC.
- More runtime can be added with up to 4 external hot-swappable battery modules, able to run systems for hours if necessary. The additional battery modules are automatically recognized by the UPS.



Powering Business Worldwide

# Eaton 9SX 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

## Technical specifications

|                                               | 700 VA                                                                                                                                                                              | 1000 VA                                                | 1500 VA                                                | 2000 VA                                                  | 3000 VA                                                |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------|
| Rating (VA/W)                                 | 700 VA/630W                                                                                                                                                                         | 1000 VA/900W                                           | 1500 VA/1350W                                          | 2000 VA/1800W                                            | 3000 VA/2700W                                          |
| Format                                        | Tower                                                                                                                                                                               | Tower or Rack 2U                                       |                                                        |                                                          |                                                        |
| Electrical characteristics                    |                                                                                                                                                                                     |                                                        |                                                        |                                                          |                                                        |
| 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                                                                                                                            |                                                        |                                                        |                                                          |                                                        |
| Connections                                   |                                                                                                                                                                                     |                                                        |                                                        |                                                          |                                                        |
| Input                                         | 1 IEC C14 (10A)                                                                                                                                                                     | 1 IEC C14 (10A)                                        | 1 IEC C14 (10A)                                        | 1 IEC C14 (10A)                                          | 1 IEC C20 (16A)                                        |
| Outputs                                       | 6 IEC C13 (10A) sockets                                                                                                                                                             | 6 IEC C13 (10A) sockets                                | 6 IEC C13 (10A) sockets                                | 8 IEC C13 (10A) sockets                                  | 8 IEC C13 (10A) sockets + 1 IEC C19 (16A) socket       |
| Switched Outlet Group                         | 2 outlet groups                                                                                                                                                                     |                                                        |                                                        |                                                          |                                                        |
| Batteries                                     |                                                                                                                                                                                     |                                                        |                                                        |                                                          |                                                        |
| Typical backup times* (minutes)/load          | 300W                                                                                                                                                                                | 500W                                                   | 800W                                                   | 1200W                                                    | 1800W 2500W                                            |
| 9SX 700                                       | 14                                                                                                                                                                                  | 7.5                                                    |                                                        |                                                          |                                                        |
| 9SX 1000                                      | 24                                                                                                                                                                                  | 14                                                     | 7                                                      |                                                          |                                                        |
| 9SX 1000 + 1 EBM/+ 4 EBM                      | 90/320                                                                                                                                                                              | 56/200                                                 | 33/120                                                 |                                                          |                                                        |
| 9SX 1500                                      | 39                                                                                                                                                                                  | 23                                                     | 12                                                     | 7                                                        |                                                        |
| 9SX 1500 + 1 EBM/+4 EBM                       | 142/520                                                                                                                                                                             | 85/310                                                 | 50/179                                                 | 31/115                                                   |                                                        |
| 9SX 2000 (Tower)                              | 62                                                                                                                                                                                  | 36                                                     | 22                                                     | 13                                                       | 7                                                      |
| 9SX 2000 (Tower) + 1 EBM/+4 EBM               | 280/1050                                                                                                                                                                            | 165/620                                                | 100/390                                                | 65/250                                                   | 40/160                                                 |
| 9SX 2000 (Rack)                               | 42                                                                                                                                                                                  | 25                                                     | 14                                                     | 8                                                        | 4,5                                                    |
| 9SX 2000 (Rack) + 1 EBM/+4 EBM                | 210/800                                                                                                                                                                             | 120/480                                                | 72/270                                                 | 45/175                                                   | 30/118                                                 |
| 9SX 3000 (Tower)                              | 78                                                                                                                                                                                  | 45                                                     | 29                                                     | 17                                                       | 10 6                                                   |
| 9SX 3000 (Tower) + 1 EBM/+4 EBM               | 290/1100                                                                                                                                                                            | 175/630                                                | 108/421                                                | 68/255                                                   | 45/168 30/112                                          |
| 9SX 3000 (Rack)                               | 57                                                                                                                                                                                  | 33                                                     | 20                                                     | 12                                                       | 7 4                                                    |
| 9SX 3000 (Rack) + 1 EBM/+4 EBM                | 220/820                                                                                                                                                                             | 125/490                                                | 77/280                                                 | 50/180                                                   | 32/121 22/81                                           |
| Battery management                            | ABM <sup>®</sup> and Temperature compensated charging method (user selectable), automatic battery test, deep discharge protection, automatic recognition of external battery units. |                                                        |                                                        |                                                          |                                                        |
| Communication                                 |                                                                                                                                                                                     |                                                        |                                                        |                                                          |                                                        |
| 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, Network-MS, ModBus-MS or Relay-MS cards                                                                                                                      |                                                        |                                                        |                                                          |                                                        |
| Operating conditions, standards and approvals |                                                                                                                                                                                     |                                                        |                                                        |                                                          |                                                        |
| Operating temperature                         | 0 to 40°C                                                                                                                                                                           |                                                        |                                                        |                                                          |                                                        |
| Typical noise level                           | 40dB                                                                                                                                                                                | 41dB                                                   | 43dB                                                   | 45dB                                                     | 45dB                                                   |
| Safety                                        | IEC/EN 62040-1, UL 1778, CSA 22.2                                                                                                                                                   |                                                        |                                                        |                                                          |                                                        |
| EMC                                           | IEC/EN 62040 -2 , FCC Class B, CISPR22 Class B                                                                                                                                      |                                                        |                                                        |                                                          |                                                        |
| Approvals & marking                           | CE /CB report (TUV) / cULus / EAC / RCM / BIS (Tower models only) / KCC (Tower models only)                                                                                         |                                                        |                                                        |                                                          |                                                        |
| Dimensions H x W x D in mm/Weight             |                                                                                                                                                                                     |                                                        |                                                        |                                                          |                                                        |
| UPS                                           | 252x160x357/11.5kg                                                                                                                                                                  | Tower: 252x160x387/14.8kg<br>Rack: 86.5x438x438/15.7kg | Tower: 252x160x437/18.5kg<br>Rack: 86.5x438x438/18.4kg | Tower: 346x214x412/33.3kg<br>Rack: 86.5x438x608/26.5kg   | Tower: 346x214x412/33.4kg<br>Rack: 86.5x438x608/26.5kg |
| EBM                                           |                                                                                                                                                                                     | Tower: 252x160x387/19kg<br>Rack: 86.5x438x438/22.2kg   | Tower: 252x160x387/24.5kg<br>Rack: 86.5x438x438/27.4kg | Tower: 346x214x412/48.7kg<br>Rack: 86.5x438x608/40.5kg   | Tower: 346x214x412/48.7kg<br>Rack: 86.5x438x608/40.5kg |
| Customer service and support                  |                                                                                                                                                                                     |                                                        |                                                        |                                                          |                                                        |
| Warranty                                      | 2 years                                                                                                                                                                             |                                                        |                                                        |                                                          |                                                        |

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

| Parts numbers                            | 9SX 700 VA | 9SX 1000 VA | 9SX 1500 VA | 9SX 2000 VA | 9SX 3000 VA |
|------------------------------------------|------------|-------------|-------------|-------------|-------------|
| UPS Tower                                | 9SX700I    | 9SX1000I    | 9SX1500I    | 9SX2000I    | 9SX3000I    |
| UPS Rack 2U                              | —          | 9SX1000IR   | 9SX1500IR   | 9SX2000IR   | 9SX3000IR   |
| EBM Tower                                | —          | 9SXEBM36T   | 9SXEBM48T   | 9SXEBM96T   | 9SXEBM96T   |
| EBM Rack 2U                              | —          | 9SXEBM36R   | 9SXEBM48R   | 9SXEBM72R   | 9SXEBM72R   |
| 2m battery connection cable (Tower only) | —          | EBMCBL36T   | EBMCBL48T   | EBMCBL96T   | EBMCBL96T   |



**Eaton Industries Manufacturing GmbH**  
Electrical Sector EMEA  
Route de la Longeraie 7  
1110 Morges, Switzerland  
Eaton.eu

© 2018 Eaton All Rights Reserved  
Printed in Europe  
Publication No.PA153007EN  
June 2018

Changes to the products, to the information contained in this document, and to prices are reserved; so are errors and omissions. Only order confirmations and technical documentation by Eaton is binding. Photos and pictures also do not warrant a specific layout or functionality. Their use in whatever form is subject to prior approval by Eaton. The same applies to Trademarks (especially Eaton, Moeller, and Cutler-Hammer). The Terms and Conditions of Eaton apply, as referenced on Eaton Internet pages and Eaton order confirmations.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.