

Eaton 9E UPS

80-200 kVA



The Eaton® 9E UPS delivers superior power protection for ever-expanding loads in today's space-constrained data centres.

Facilitating a lower total cost of ownership (TCO) through a combination of energy-efficiency, high reliability and a compact footprint the 9E is an ideal solution for small - to medium - sized data centres and other applications desiring highly reliable power protection.

Applications:

- Small to medium data centres
- Corporate
- Telecom
- Healthcare
- Banking
- Industrial
- Education
- Government

Energy-efficient design

With a transformer-free design and sophisticated sensing and control circuitry the 9E is capable of achieving up to a 98% efficiency rating, making it one of the most energy-efficient UPSs in its class - and it still provides maximum load protection. Unlike most high efficiency UPSs, the 9E:

- Provides surge suppression for the load
- Detects the location of faults (utility or load) and takes the appropriate action
- Switches to double-conversion operation in less than 4ms

High system efficiency reduces utility cost, extends battery run times and ensures cooler operating conditions.

Real compatibility

Active power factor correction (PFC) provides 0.99 input power factor and <5% THD, thus eliminating interference with other critical equipment in the same network and enhancing compatibility with generators. The 9E is optimised for protecting modern 0.9 p.f. rated IT equipment without the need to oversize.

True reliability

Patented Eaton Hot Sync® technology makes it 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.

Compact & serviceable design

Small footprint occupies minimal floor space:

- Up to 35% smaller than similar competitive solutions
- 600mm wide UPS cabinet enables seamless "in-row" integration with IT racks

The 9E is easily and quickly serviced to provide the highest level of availability with Mean Time to Repair (MTTR) <30 minutes.

With its Easy Capacity Test feature the 9E can test its entire power train under full load stress without the requirement of an external load.



Powering Business Worldwide

User Interface

Large LCD graphically displays UPS status and offers easy access to measurements, controls and settings.



Connectivity

With Eaton® Mini-Slot connectivity cards, you can monitor, manage and remotely shutdown UPSs across the network.

- Network Card-MS Web/SNMP Card allows you to connect your 9E UPS directly to the Ethernet network and the Internet
- Network and MODBUS Card-MS provides remote monitoring of a UPS system through a Building Management System (BMS) or Industrial Automation System (IAS)
- Relay Card-MS enables provides the essential dry-contact interface between your Eaton UPS and any relay-connected computer as well as a variety of industrial applications



Software

Eaton's Intelligent Power® Software Suite incorporates two important applications for ensuring quality power and uptime: monitoring and management of power devices across the network combined with automatic, graceful shutdown when faced with an extended power outage.

- Monitor and manage multiple power devices across your network
- Extend the uptime of dual-powered servers with redundancy capabilities
- Enable server shutdown and live migration events



To learn more, please visit www.eaton.com/intelligentpower

TECHNICAL SPECIFICATIONS

Power		Communications	
Ratings	80kVA/72kW, 100kVA/90kW, 120kVA/108kW, 160kVA/144kW, 200kVA/180kW	Display	Graphical LCD with blue backlight
Topology	Double-conversion online UPS		
Electrical Input	400/230V, 4 wire (380/415V selectable)	LEDs	(4) LEDs for notice and alarm
Input Voltage Range	-15%, +20% from nominal (400V) at 100% load without depleting battery	Audible Alarms	Yes
Operating Frequency	50/60 Hz (40 to 72 Hz)	Communication Ports	(1) RS-232, (1) USB, (1) EPO
Input Power Factor	0.99 typical	Communication Slot	(2) Mini-slot communication bays
Input Current Distortion	≤5% THD	Environmental	
Electrical output		Operating Temperature	0°C to +40°C Batteries recommended max. +25°C
Nominal Output Voltage	400/230, 4 wire (380/415V selectable)	Storage Temperature	-25°C to +55°C without batteries +15°C to +25°C with batteries
Output Voltage Regulation	±1% Static; ±5% dynamic at 100% resistive load change, <20 ms response time	Relative Humidity	5-95%, non-condensing
Battery		Audible Noise	80-120kVA <65 dBA at 1m typical 160-200kVA <70 dBA at 1m typical
Battery	216/228/240 Cells (Selectable)	Altitude	<1000m at +35°C
Charging Method	ABM (Cyclic) or float	Certifications	
General		EMI Standards	EN55022/EN55024
Efficiency	Up to 98%	EMC Compliance	IEC 62040-2
UPS Bypass	Automatic on overload or UPS failure	Quality	ISO 9001:2008 and ISO 14001:2004
Dimensions W x D x H, Weights	600 x 800 x 1880 (mm) all models 80/100kVA - 283 kg, 120kVA - 311 kg 160/200kVA - 457 kg		
Overload	150% for 1 minute, 125% for 10 minutes >150% for 150ms		