Eaton 93E UPS

15 - 400 kVA



93E 15 - 200 kVA

Applications:

- Data centre
- Telecom
- Manufacturing
- Healthcare

Double conversion UPS

Double conversion provides the highest level of protection available by isolating the output power from all input anomalies.

Energy-efficient design

With a transformer-free design and sophisticated sensing and control circuitry the 93E is capable of achieving up to a 98.5% 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 93E:

- 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. The Eaton® 93E 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 93E is an ideal solution for small - to medium - sized data centres and other applications desiring highly reliable power protection.

Real compatibility

Active power factor correction (PFC) provides 0.99 input power factor and <5% ITHD, thus eliminating interference with other critical equipment in the same network and enhancing compatibility with generators. The 93E is optimised for protecting modern 0.9 p.f. rated IT equipment without the need to oversize.

True reliability

Patented Powerware 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 30% smaller than similar competitive solutions
- Allows dedication of more floor space to revenue producing equipment

The 93E 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 93E can test its entire power train under full load stress without the requirement of an external load.

Flexible installation options

Eaton's range of accessories for the 93E provides flexible installation options that expedite deployment and save valuable space. The aesthetically designed accessories enable coordinated solutions that enhance both safety and reliability whilst reducing installation time and total cost.

The accessories family includes System Parallel Modules, External Maintenance Bypass Switches, External Battery Cabinets, External Battery Circuit Breakers, Top cable Entry Cabinets, Rear Chimneys, IP21 kit (15-200kVA) & Internal Transformer Options (15-120kVA).



93E 300/400 kVA



User Interface

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

Connectivity

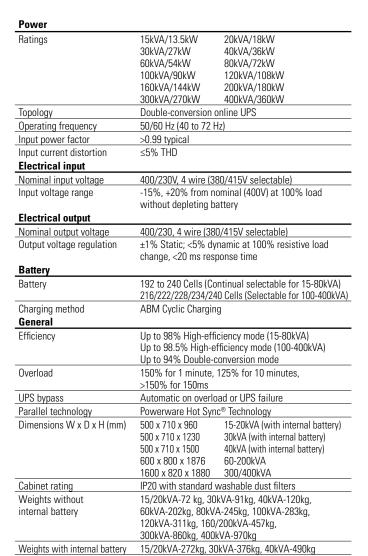
With Eaton® Mini-Slot connectivity cards, you can monitor, manage and remotely shutdown UPSs across the network.

- Network Card–MS Web/SNMP Card allows you to connect your 93E 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 provides an RS232 port and the dry-contact interface between your Eaton UPS and any relay-connected computer
- Industrial Relay Card-MS provides a hard-wired dry-contact relay interface for 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.

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









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Display	Graphical LCD with blue backlight				
LEDs	(4) LEDs for notice and alarm				
Audible alarms	Yes				
Communication ports	(1) RS-232, (1) USB, (1) EPO				
Communication slots	(2) Mini-slot communication bays				
Environmental					
Operating temperature	0°C to +40°C				
	Batteries recommended max. +25°C				
Storage temperature	-25°C to +55°C without batteries				
	+15°C to +25°C with batteries				
Relative humidity	5-95%, non-condensing				
Audible noise	15-20kVA≤55 dBA at 1m typical				
	30-40kVA≤62 dBA at 1m typical				
	60-120kVA≤65 dBA at 1m typical				
	160-200kVA≤70 dBA at 1m typical				
	300-400kVA≤73 dBA at 1m typical				
Altitude	<1000m at +40°C				
Certifications					
EMI standards	EN55022/EN55024				
EMC compliance	IEC 62040-2				
Quality	ISO 9001: 2000 and ISO 14001:1996				
Communication accessor	ies				
Network-MS	Web/SNMP Card				
Modbus-MS	Web/SNMP and Modbus Card				
Relay-MS	Relay (Dry Contact) Card -DB9 Connection				
Industrial Relay	Relay (Dry Contact) Card -Terminal Connection				
116750224-001	Environmental Monitor Probe (EMP) kit (need to plug				
	into Web/SNMP Card or Web/SNMP and Modbus				
	Card to work				
System accessories					
Battery cabinets & battery circuit breakers (60-200kVA)					
Maintenance Bypass Switches (MBS) (100-200kVA, standard on 15-80kVA)					
Top cable entry (60-200kVA, standard on 300-400kVA)					
System parallel modules (60-200kVA)					

Due to continuous product improvements, specifications are subject to change without notice.

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Dual input kit (15-80kVA)

Rear chimney (60-200kVA)

IP21 hood (15-200kVA)

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