



Eaton 93E UPS 15-400 kVA Technical Specs

Power

Ratings	15kVA/13.5kW, 20kVA/18kW, 30kVA/27kW, 40kVA/36kW, 60kVA/54kW, 80kVA/72kW, 100kVA/90kW, 120kVA/108kW, 160kVA/144kW, 200kVA/180kW, 300kVA/270kW, 400kVA/360kW
Topology	Double-conversion online UPS
Operating frequency	50/60 Hz (40 to 72 Hz)
Input power factor	>0.99 typical
Input current distortion	≤5% THD

Electrical Input

Nominal input voltage	400/230V, 4 wire (380/415V selectable)
Input voltage range	-15%, +20% from nominal (400V) at 100% load without depleting battery

Electrical Output

Nominal output voltage	400/230, 4 wire (380/415V selectable)
Output voltage regulation	±1% Static; ±5% dynamic at 100% resistive load change, <20 ms response time

Battery

Battery	192 to 240 Cells (Continual selectable for 15-80kVA) 216/222/228/234/240 Cells (Selectable for 100-400kVA)
Charging method	ABM Cyclic Charging

General

Efficiency	Up to 98% High-efficiency mode (15-80kVA) Up to 98.5% High-efficiency mode (100-400kVA) Up to 94% Double-conversion mode	
Overload	150% for 1 minute, 125% for 10 minutes, >150% for 150ms	
UPS bypass	Automatic on overload or UPS failure	
Parallel technology	Powerware Hot Sync® Technology	
Dimensions W x D x H (mm)	500 x 710 x 960 500 x 710 x 1230 500 x 710 x 1500 600 x 800 x 1876 1600 x 820 x 1880	15-20kVA (with internal battery) 30kVA (with internal battery) 40kVA (with internal battery) 60-200kVA 300/400kVA
Cabinet rating	IP20 with standard washable dust filters	
Weights without internal battery	15/20kVA-72 kg, 30kVA-91kg, 40kVA-120kg, 60kVA-202kg, 80kVA-245kg, 100kVA-283kg, 120kVA-311kg, 160/200kVA-457kg, 300kVA-860kg, 400kVA-970kg	
Weights with internal battery	15/20kVA-272kg, 30kVA-376kg, 40kVA-490kg	

Communications

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 accessories

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)

Dual input kit (15-80kVA)

IP21 hood (15-200kVA)

Rear chimney (60-200kVA)

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

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