

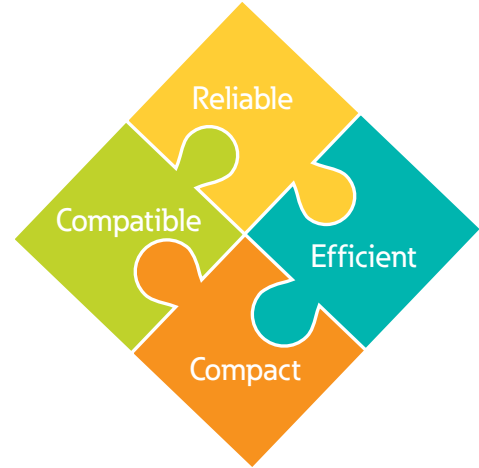
Eaton 93E UPS

15-80 kVA



Your versatile UPS ideal for:

- Industrial automation equipment
- Healthcare
- Small and Medium data centers
- Financial services
- Building management
- Telecommunications
- Government



Practical and versatile power protection ready to drive your goals.

Reliable

- Equipped with a backfeed contactor – no need for an additional installation.
- Equipped with an internal maintenance bypass for safe and easy serviceability.
- HotSync® technology makes it possible to parallel up to 4 UPSs for increased capacity or redundancy allowing maximum availability.
- Advanced Battery Management testing and charging cycle preserves and prolongs battery service life.
- Eaton's Intelligent Power Manager® software allows you to remotely monitor and manage your UPS.
- A multilingual graphical LCD display easily provides the UPS status.

Efficient

- One of the most energy-efficient UPSs in its class with up to 94% efficiency in double conversion mode and up to 98% efficiency in High-efficiency mode.

Compatible

- Optimized for protecting modern 0.9 p.f. rated IT equipment without the need to oversize.
- Enhanced compatibility with generators and with other critical equipment in the same network via active power factor correction (PFC) that provides 0.99 input power factor and <5% ITHD.

Compact

- Up to 30% smaller than similar competitive solutions.
- 600 mm wide UPS cabinet enables seamless "in-row" integration with IT racks.
- Optional internal batteries in the 15-40 kVA models, in addition to the possibility to connect external batteries for all models.



Powering Business Worldwide

Eaton 93E UPS 15-80 kVA

Technical specifications

Power	
UPS output power rating (0.9 p.f)	15 20 30 40 60 80 kVA 13.5 18 27 36 54 72 kW
Topology	Double-conversion online UPS
Distributed paralleling with Hot Sync technology	Up to 4 units
Efficiency in double conversion mode	Up to 94%
Efficiency in High-Efficiency mode (HE)	Up to 98%
UPS dimensions (Width x Depth x Height)	500 x 710 x 960 15/20 kVA (with internal batteries)
	500 x 710 x 1230 30 kVA (with internal batteries)
	500 x 710 x 1500 40 kVA (with internal batteries)
	600 x 800 x 1800 60-80 kVA
Weight without internal batteries	72 kg 15/20 kVA
	91 kg 30 kVA
	120 kg 40 kVA
	202 kg 60 kVA
	245 kg 80 kVA
Weight with internal batteries	272 kg 15/20 kVA
	376 kg 30 kVA
	490 kg 40 kVA
Audible noise at 1 m typical	15-20 kVA ≤55 dBA
	30-40 kVA ≤62 dBA
	60-80 kVA ≤65 dBA
Operating altitude	1000 m without derating (max 2000 m)
Ambient operating temperature	0°C - 40°C
Degree of protection	IP20 with standard washable dust filters
Input	
Input wiring	3ph + N
Nominal voltage and frequency rating	220/380 230/400 240/415 V 50/60 Hz
Input voltage tolerance, with 400 V nominal voltage	-15% / +20% from nominal (400 V) at 100% load
Input frequency tolerance	40 -72 Hz
Input Power Factor	>0.99 typical
Input ITHD	<5%
Power walk-in	Yes
Internal backfeed Protection	Yes

Output	
Output wiring	3ph + N
Nominal voltage and frequency rating	380/400/415 V 50/60 Hz
Output voltage regulation	±1% Static; <5% dynamic at 100% resistive load change, <20 ms response time
Output power factor	0.9
Permitted load power factor	0.7 lag to 0.9 lead
Overload capacity on inverter	102 - 125% rated load 10 minutes
	126 - 150% rated load 1 minute
	>151% rated load 500 ms
Overload capacity on bypass	Continuous <115% load, 20 ms 1000% peak current. Note: External bypass fuses may limit the overload capability.

Battery	
Battery type	VRLA
Charging method	ABM cyclic charging
Battery nominal voltage (lead-acid)	384 V (32 x 12 V, 192 cells) with internal (for 15-40 kVA) and external batteries 432 V (36 x 12 V, 216 cells) with external batteries 456 V (38 x 12 V, 228 cells) with external batteries 480 V (40 x 12 V, 240 cells) with external batteries
Charging current/Model	15 20 30 40 60 80 kVA
	Default 3.5 3.5 5.2 7 10.4 15.6 A
	Max * 5.3 5.3 8 10.6 16 24 A

*May be limited by maximum UPS input current rating

Accessories	
External battery cabinets, External maintenance bypass switch, Environmental monitoring probe, MiniSlot connectivity (Web/SNMP, ModBus/Jbus, Relay)	

Communication	
Display	Graphical LCD with blue backlight
LEDs	(4) LEDs for notice and alarm
Audible alarms	Yes
Software	Eaton Intelligent Power Manager
Communication ports	(1) RS-232, (1) USB, (1) EPO, (3) Building alarm (Signal inputs)
Communication slots	(2) Mini-slot communication bays

Compliance with Standards	
Safety (CB certified)	EC 62040-1
EMC	IEC 62040-2, EMC Category C3
Performance	IEC 62040-3
RoHS	EU directive 2011/65/EU
WEEE	EU directive 2012/19/EU

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

Eaton
EMEA Headquarters
Route de la Longeraie 7
1110 Morges, Switzerland
Eaton.eu

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