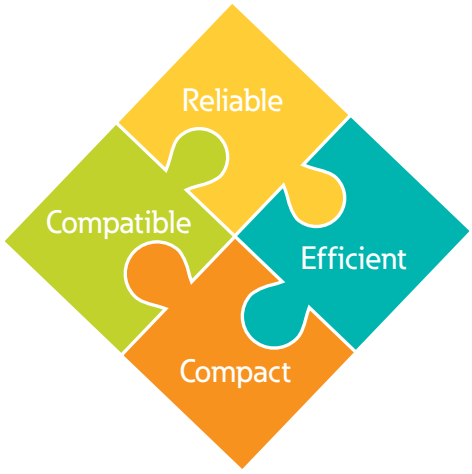
Eaton 93E UPS - Generation 2

100-200 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 96.1% efficiency in double conversion mode and up to 99.3% 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 <3% ITHD.

Compact

- Up to 60% smaller than similar competitive solutions.
- 600 mm wide UPS cabinet enables seamless "in-row" integration with IT racks.

EATON
Powering Business Worldwide

Eaton 93E G2 UPS 100-200 kVA

Technical specifications

Power	
UPS output power rating (0.9 p.f)	100 120 160 200 kVA 90 108 144 180 kW
Inverter/rectifier topology	Transformer-free 3-level IGBT with PWM
Distributed paralleling with Hot Sync technology	Up to 4 units
Efficiency in double conversion mode	Up to 96.1%
Efficiency in High-Efficiency mode (HE)	Up to 99.3%
UPS dimensions (Width x Depth x Height)	600 x 800 x 1800 (100-120 kVA)
	600 x 830 x 1880 (160-200 kVA)
Installed weight (max)	283 kg - 100 kVA
	311 kg - 120 kVA
	427 kg - 160/200 kVA
Audible noise	100-120 kVA ≤ 62 dB , 160-200 kVA ≤ 70 dB
Operating altitude	1000 m without derating (max 2000 m)
Ambient operating temperature	0°C - 40°C
Degree of protection	IP 20

Input	
Input wiring	3ph + N + PE
Nominal voltage and frequency rating	380/400/415 V 50/60 Hz
Input voltage tolerance, with 400 V nominal voltage	-15% / +20% with rated linear load
Input frequency tolerance	40 -72 Hz
Input Power Factor	0.99
Input ITHD	<3%
Power walk-in	Yes
Internal backfeed Protection	Yes, for rectifier and bypass lines

Output	
Output wiring	3ph + N + PE
Nominal voltage and frequency rating	380/400/415 V 50/60 Hz
Output UTHD	<2% (linear load)
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
	>150% 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 technology or Float
Battery nominal voltage (lead-acid)	432 V (36 x 12 V, 216 cells) 456 V (38 x 12 V, 228 cells) 480 V (40 x 12 V, 240 cells)
Charging current/Model Default Max *	100 120 160 200 kVA 20 20 40 40 A 40 40 80 80 A

*Maybe limited by the maximum UPS input current rating and the load level

Accessories
External battery cabinets, Input switch up to 120 kVA, Internal maintenance bypass switch up to 120 kVA, External maintenance bypass switch up to 160 kVA, MiniSlot connectivity (Web/SNMP, ModBus/Jbus, Relay, Gigabit Network card)

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.