# Eaton 93E UPS 80/100/120/160/200/300/400 kVA



93E 80-200 kVA

### Advanced power protection for:

- Financial services
- Building management
- Telecommunications
- Industrial automation equipment
- Healthcare
- Government
- Data centres



#### **Double conversion UPS**

## Simply effective power protection

- Double conversion provides the highest level of protection available by isolating the output power from all input anomalies.
- With a transformer-free design and sophisticated sensing and control circuitry the 93E UPS delivers an efficiency of up to 98,5%.
- Active power factor correction (PFC) provides unbeatable 0,99 input power and <5% ITHD, thus eliminating interference with other critical equipment in the same network and enhancing compatibility with generators.
- The UPS is optimized for protecting modern 0,9 p.f. rated IT equipment without the need to oversize.

#### **True reliability**

- Eaton's patented HotSync technology makes it possible to parallel up to 4 UPSs in capacity or in redundancy.
- ABM testing and charging cycle helps you to prevent battery problems and in addition lessens corrosion prolonging battery servicelife up to 50%.

#### **Extensive configurability**

- The 93E offers over 20% smaller footprint compared to competitive UPS offerings.
- A multilingual graphical LCD display makes possible to monitor the UPS status easily.
- Wide software and connectivity options provide monitoring, management and shutdown capabilities over the network.
- Connectivity options are available to suit nearly any communication requirements, from standard serial communications to secure remote monitoring over the Web.

#### Cost savings and sustainability

- A new technical platform used in Eaton's three-phase UPS products guarantee easy upgrades, low MTTR, similarity on service trainings and documentation, thus lowering total cost of ownership.
- A range of service agreement options can be easily customized for customers' needs and budget.



# Eaton 93E UPS 80-400 kVA Technical Specifications

80 100 120 160 200 300 400 kVA					
72 90 108 144 180 270 360 kW					
94%					
4 in parallel					
Transformer-free IGBT with PWM					
≤70 dB (80-200 kVA) and ≤73 dB (300-400 kVA) at 1 m, 75% load					
1000 m without derating (max 2000 m)					
600 x 800 x 1876 (mm) 80-200 kVA 1600 x 820 x 1880 (mm) 300-400 kVA					
0°C to +40°C					
3 ph + neutral					
220/380, 230/400, 240/415 V 50/60 Hz					
+20% / -15% at 100% load +20% / -50% at 50% load					
42-70 Hz					
0,99					
< 5%					
Yes					
Yes					
VRLA					
ABM technology or Float					
432 V (36 x 12 V, 216 cells) 456 V (38 x 12 V, 228 cells) 480 V (40 x 12 V, 240 cells)					
80 100 120 160 200 300 400 kVA 20 20 20 20 20 20 20 A					

*Mav	/ he	limited	hv	maximum	UPS	innut	current ra	tina

Output				
Output wiring	3 ph + neutral			
Nominal voltage rating (configurable)	220/380, 230/400 (default), 240/415 V 50/60 Hz			
Output UTHD	<2% (100% linear load)			
Output power factor	0.9			
Permitted load power factor	0.7 lagging – 0.9 leading			
Overload on inverter	10 min 102-125% load 1 min 126-150% load 150 ms >151% load			
Overload when bypass available	Continuous <115% load, 20 ms 1000% peak current. <b>Note!</b> External bypass fuses may limit the overload capability.			

# Accessories

External battery cabinets, internal manual bypass switch up to 120 kVA, external maintenance bypass switch (80-160 kVA), MiniSlot connectivity (Web/SNMP, ModBus/Jbus, Relay)

2 communication bays
USB, RS232
Three Signal inputs
IEC 62040-1
IEC 62040-2, EMC Category C3
IEC 62040-3

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





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