



Eaton 93E UPS 15-200 kVA Technical Specs

Power

UPS output power rating (0.9 p.f.)	15,	20,	30,	40,	60,	80,	100,	120,	160	200	kVA
	13.5,	18,	27,	36,	54,	72,	90,	108,	144,	180	kW

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 (15-80 kVA) <3% THD (100-200 kVA)

Electrical input

Input wiring	3 ph + neutral
Nominal voltage rating	380/400/415 V 50/69 Hz
Input voltage range	-15%, +20% from nominal (400 V) at 100% load
Power walk-in	Yes
Internal backfeed protection	Yes

Electrical output

Output wiring	3 ph + neutral
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 380/400/415 V 50/60 Hz
Output voltage regulation	±1% Static; <5% dynamic at 100% resistive load change, <20 ms response time
Overload on inverter	10 min 102-125% load 1 min 126-150% load 500 ms >151% load
Overload when bypass available	Continuous <115% load, 20 ms 1000% peak current. Note! External bypass fuses may limit the overload capability

Battery

Battery	384 V (32 x 12 V, 192 cells) for 15-40 kVA with internal batteries 384 V - 480 V for 15-80 kVA with external batteries 432 V - 480 V for 100-200 kVA with external batteries										
Charging method	ABM Cyclic Charging										
Charging current / Model	15	20	30	40	60	80	100	120	160	200	kVA
Default A	3.5	3.5	5.2	7	10.4	15.4	20	20	40	40	A
Max* A	5.3	5.3	8	10.6	16	24	40	40	80	80	A

*May be limited by maximum UPS input current rating

General

Efficiency	Up to 98% High-efficiency mode (15-80 kVA) Up to 99.3% High-efficiency mode (100-200 kVA) Up to 96.1% Double-conversion mode	
Parallel technology	Hot Sync® Technology	
Dimensions W x D x H (mm)	500 x 710 x 960	15-20 kVA (with internal battery)
	500 x 710 x 1230	30 kVA (with internal battery)
	500 x 710 x 1500	40 kVA (with internal battery)
	600 x 800 x 1800	60-120 kVA
	600 x 830 x 1880	160-200 kVA
Cabinet rating	IP20 with standard washable dust filters	
Weights without internal battery	72 kg	15-20 kVA
	88 kg	30 kVA
	120 kg	40 kVA
	202 kg	60 kVA
	245 kg	80 kVA
	283 kg	100 kVA
	311 kg	120 kVA
Weights with internal battery	427 kg	160/200 kVA
	272 kg	15-20 kVA
	376 kg	30 kVA
	490 kg	40 kVA

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
Storage temperature	-25 °C to +55 °C without batteries +15 °C to +25 °C with batteries
Relative humidity	5-95%, non-condensing
Audible noise	15-20 kVA ≤55 dBA at 1m typical 30-40 kVA ≤62 dBA at 1m typical 60-80 kVA ≤65 dBA at 1m typical 100-120 kVA ≤62 dBA at 1m typical 160-200 kVA ≤70 dBA at 1m typical
Altitude	<1000 m at +40 °C
Compliance with standards	
Safety (CB certified)	IEC 62040-1
EMC	IEC 62040-2, EMC Category C3
Performance	IEC 62040-3
Quality	ISO 9001: 2000 and ISO 14001:1996

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)
- Environmental monitoring probe

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



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