Eaton 9E UPS

20-30 kVA

40-60 kVA

The Eaton 9E UPS delivers three key benefits that drive a lower total cost of ownership (TCO): internal batteries, compact footprint and energy-efficiency.

Energy-efficient

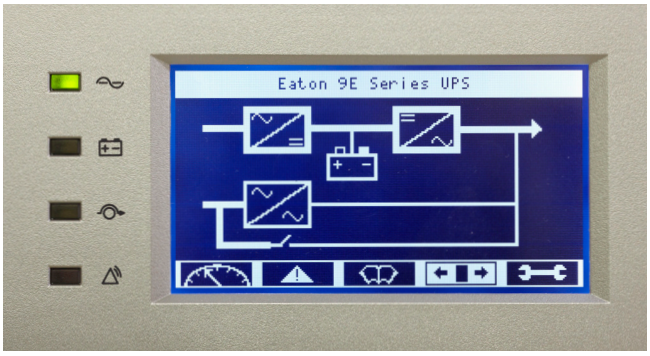
- Delivers up to 98% efficiency
- Up to 7% more efficient than competitive units
- Helps you qualify for local utility rebates and incentives

Internal batteries

- Deliver up to 21 minutes of runtime
- Pre-wired for easy installation

Compact footprint

- Up to 66% smaller than similarly specified competitive solutions
- Allows dedication of more floor space to revenue-producing equipment



Large LCD graphically displays UPS status and offers easy access to options and settings

Powering Business Worldwide

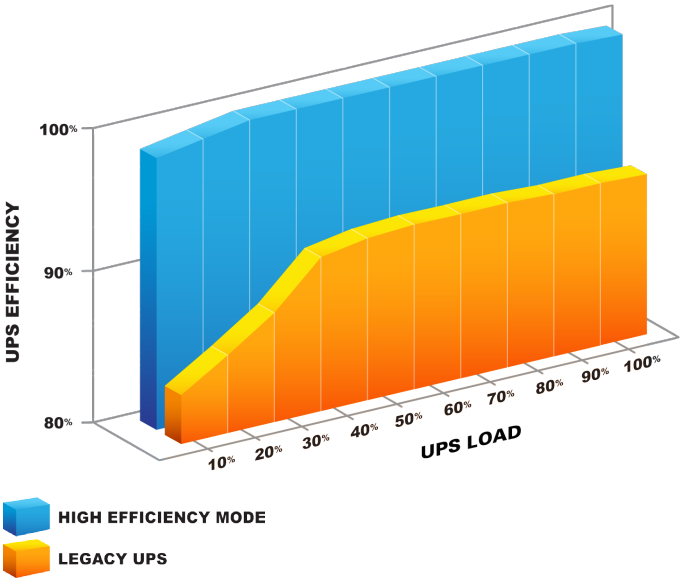
Total cost of ownership

The 9E is designed to be the easy choice if you're seeking to maximize your Return on Investment (ROI). It delivers the lowest TCO of any UPS in its class by offering a unique blend of savings. The 9E can decrease your TCO by more than $85,000 over its 12-year lifespan when compared to current competitive offerings.

Savings

Energy	**$71,292**
Space	**$11,880**
Installation, maintenance and freight	**$2,000**
TOTAL	**$85,000+**

** Energy calculation based against a 60 kVA UPS operating at 91% efficiency (kW/hr $0.10, Cooling Ratio 80%, 12 yrs). Space saving calculation based against a 60 kVA UPS with an 11.8 ft² footprint using $150/ft² per year.*



Energy-efficiency

The 9E is up to 98% efficient, making it one of the most energy-efficient UPSs in its class, and it still provides maximum load protection. Unlike most high-efficiency UPSs in this class, the 9E:

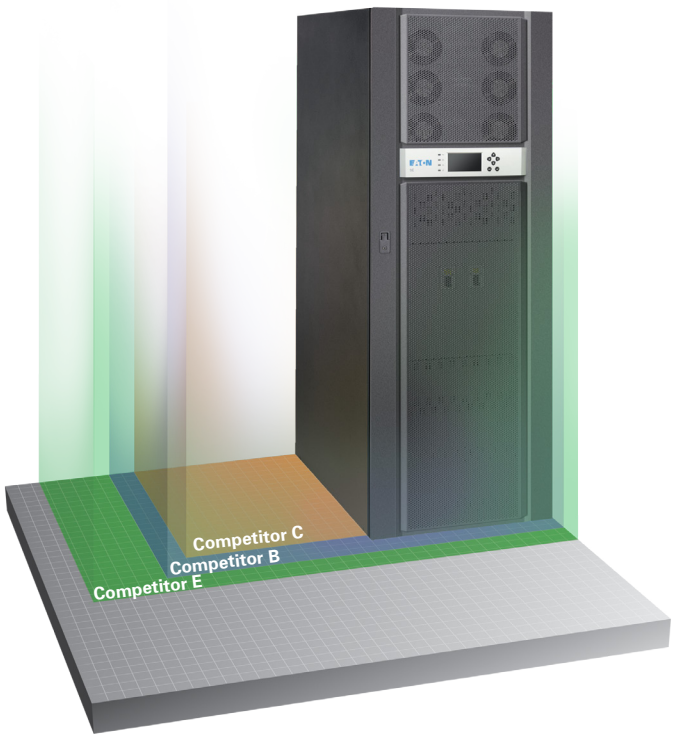
- Continues to provide surge suppression for the load
- Detects the location of faults (utility or load) and take the appropriate action
- Switches to double-conversion operation in less than 4 ms

The 9E will save you more than $71,292 in electricity and cooling costs over the life of the product versus a 60 kVA UPS operating at 91% efficiency. cooling costs.

Compact footprint

Smaller than any comparable competitor by up to 66%, the 9E allows you to better utilize floor space for revenue-producing equipment. It also puts money back in your pocket that would otherwise be used to build, maintain and condition space for larger power/support equipment. The ongoing maintenance cost for U.S. office and data center space is estimated to be anywhere from $90 to $224 annually, per square foot, so the savings realized from the 9E's smaller footprint can quickly add up.

60 kVA	Width (in)	Depth (in)	Height (in)	Footprint (sq/ft)
Eaton 9E	23.6	31.5	73.6	5.2
A	45.3	30.0	72.0	9.4
B	56.8	38.0	78.5	15.0
C	48.0	35.5	81.5	11.8
D	59.8	69.5	72.0	28.9
E	69.3	29.5	70.9	14.2



Serviceability

The 9E is easily and quickly serviced to give you the highest availability.

- Mean Time to Repair (MTTR) <30 minutes
- Screws are attached to components to prevent accidental drops into the unit
- An optional on-board maintenance bypass rotary switch allows replacement of power modules, control board and display

Installation

Reduced installation costs mean the 9E can be up and supporting your loads faster, and lower installation and wiring costs further reduce its TCO.

- Pre-wired internal batteries mean only facility connections are needed
- Optimized angled connections reduce bending radius of input and output wiring
- Clear wiring terminal block access ensures easy connections
- Integrated wheels facilitate easy movement to final location

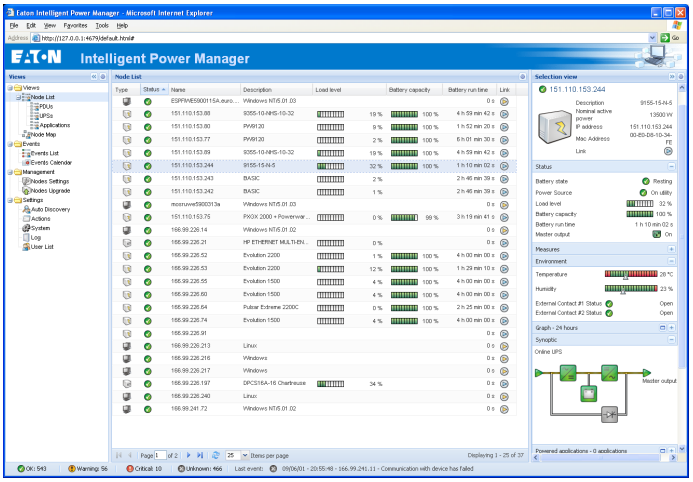
Software

Eaton's Intelligent Power® Software Suite incorporates two important applications for ensuring quality power and uptime: monitoring and management of power devices across the network and automatic, graceful shutdown when faced with an extended power outage.

Intelligent Power Manager supervisory software lets you monitor and manage multiple power and environmental devices across the network from a single interface, giving you up-to-the-minute information on the status of power in your network. It also works seamlessly with VMware's vCenter Server™ and vMotion™ as well as Microsoft's SCVMM™ and Live Migration.

Intelligent Power Protector protection software provides graceful, automatic shutdown of network devices during a prolonged power disruption, preventing data loss and saving work-in-progress. As part of Eaton's power network management system, these two applications work together to deliver comprehensive power management and protection.

Both software programs can be downloaded free of charge from **www.eaton.com/intelligentpower**.



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Accessories

Extended Battery Cabinet (EBC)

EBCs give the 9E flexible runtime options to meet the needs of any requirement. Seemless matching cabinets can be easily paried with the 9E.

Integrated Accessory Cabinet (IAC)

Several configurations of the IAC are available

- Parallel tie and maintenance bypass
- Maintenance bypass
- Distribution with one 42-pole panelboard

Integrated Transformer Cabinet (ITC)

Houses transformer configurations to adjust output or input/output voltages to meet location requirements

- 480V:208V
- 480V:480V

Wall-Mount Bypass

Save even more floorspace with an Eaton wall-mount bypass panel, available in two configurations

- Bypass
- Bypass and 36-pole distribution

TECHNICAL SPECIFICATIONS[1]

POWER	
Ratings	20 kVA/16 kW, 30 kVA/24 kW, 40 kVA/32 kW and 60 kVA/48 kW
Topology	Double-conversion online UPS
Electrical Input	208/120V, 4 wire or 220/127V, 4 wire
Input Voltage Range	-15%, +20% from nominal (208V) at 100% load without depleting battery
Operating Frequency	50/60 Hz (40 to 72 Hz)
Input Power Factor	>0.99 typical
Input Current Distortion	5% THD
ELECTRICAL OUTPUT	
Nominal Output Voltage	208/220, 3/4 wire
Output Voltage Regulation	±1% Static; ±5% dynamic at 100% resistive load change, <20 ms response time
BATTERY	
Battery Type	9 Ah, sealed, lead-acid, maintenance-free
Battery Runtime (100% Load)	20 kVA - 21 minutes, 30 k VA - 12 minutes, 40 kVA - 10 minutes, 60 kVA - 5 minutes
Battery Replacement	Field-replaceable
Charging Method	ABM (Cyclic) or Float
GENERAL	
Efficiency	up to 98% High-efficiency mode up to 92% Double-conversion
UPS Bypass	Automatic on overload or UPS failure
Dimensions W x D x H, in (mm)	20-30 kVA - 20.9 x 31.5 x 52 (531 x 801 x 1321) 40-60 kVA - 23.6 x 31.5 x 73.6 (600 x 801 x 1870)
Weights	20-30 kVA - 1049.4 lbs, 476 kg 40-60 kVA - 1499.1 lbs, 680 kg
Overload	150% for 40 ms / 125% for 30 seconds 110% for 10 min

COMMUNICATIONS	
Display	Graphical LCD with blue backlight
LEDs	(4) LEDs for notice and alarm
Audible Alarms	Yes
Communication Ports	(1) RS-232, (1) REPO
Communication Slot	(2) Mini-slot communication bays (ships with installed ConnectUPS-MS card)
Power Management	Bundled Software Suite CD

ENVIRONMENTAL	
Operating Temperature	0ºC (32ºF) to +30ºC (86ºF); Batteries recommended max. +25ºC (77ºF)
Storage Temperature	-25ºC (-13ºF) to +55ºC (131ºF) without batteries +15ºC (59ºF) to +25ºC (77ºF) with batteries
Relative Humidity	5–95%, non-condensing
Audible Noise	< 60 dBA at 1 meter (noise less room) typical
Altitude	< 1000m at +30°C (86ºF)
CERTIFICATIONS	
Safety Certifications	UL60950, EN55022/EN55024
EMC Compliance	IEC 62040-2, FCC Part 15, ICES-003, VCCI, CISPR 22
Quality	ISO 9001: 2000 and ISO 14001:1996
Markings	UL, cUL

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

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