



Eaton 9390 UPS Technical Specs

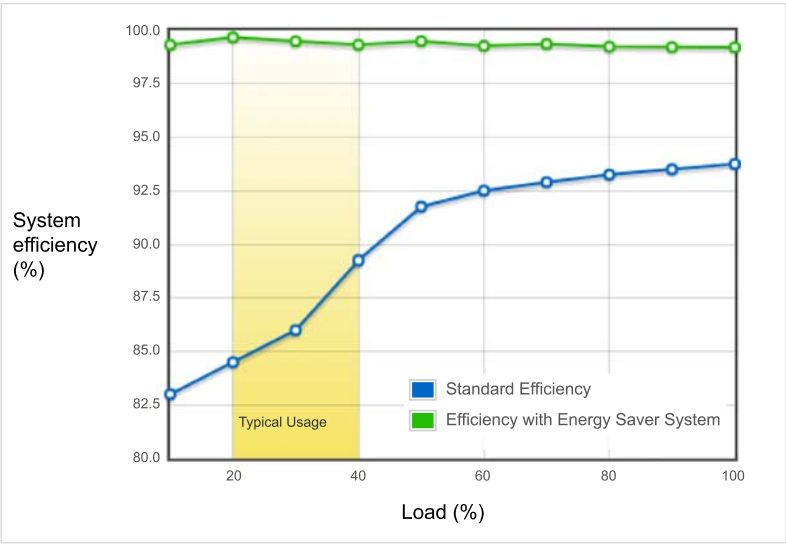
UPS Rating (0.9 power factor)

kVA	20	40	80	120	160
kW	18	36	72	108	144

General Characteristics

Efficiency 99% with Energy Saver Mode

40 kVA - 36 kW 80 kVA - 72 kW 120 kVA - 108 kW 160 kVA - 144 kW



Mouseover graph for detailed efficiency values

* These efficiencies are for guidance only. Actual unit and system efficiencies will vary based on site design/conditions and environmental parameters.

Parallel Capability	Four modules with tie cabinet
Audible Noise	<65 dBA @ 1 meter
Altitude (max)	2000m at 104°F (40°C)

Input Characteristics

Voltage	208, 380, 400, 415, 480, 600 ¹
Voltage Range	+10% / -15% ²
Frequency range	55-65 Hz
Power Factor	0.99 (min)
Input Current Distortion	<4.5% (no="" input="" filter="">
Soft Start Capability	Yes
Internal Backfeed Protection	Yes
Broadcast global support	Yes

Output Characteristics

Voltage	208 ³ , 380 ³ , 400 ³ , 415 ³ , 480 ³ , 600 ⁴
Regulation	±1%
Inverter	PWM with IGBT Switching
Voltage THD	< 2% (100% linear load); < 5% (non-linear load)
Load Power Factor	Down to 0.9pf leading without de-rating

Range

Heat dissipation	80 kVA, 208V: 23.6
(BTU/Hr x 1000/Hr)	160 kVA, 208V: 47.3
	80 kVA, 380-480V: 21.9
	160 kVA, 380-480V: 43.8

Battery

Battery types	VRLA, AGM, Gel, Wet, Eaton batteries also available
Battery voltage	384 - 480 V
Temperature Compensation	Optional
Charging method	Advanced battery management

Dimensions and Weights

40-80 kVA modules	HxWxD: 73.7 x 18.9 x 31.6 in./1872 x 480 x 803 mm
40-80 kVA Modules	640 lb./290 kg (208V); 568 lb./258 kg (480V)
120-160 kVA Modules	HxWxD: 73.7 x 35.6 x 31.6 in./1872 x 904 x 803 mm
120-160 kVA Modules	1,060 lb./481 kg (208V, 480V)

Serviceability

Back/Side Against Wall Installation	Standard
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Certification

Safety	UL1778, cUL
EMC	IEC62040-2 EN50091 Class A (restricted access)
Surge	ANSI C62, 41 Cat. A&B

Accessories

Module tie cabinet	Optional
External Maintenance Bypass	Optional
Integrated Distribution Cabinet	Optional
Isolation Transformer	Optional

PredictPulse remote monitoring service

24x7 remote monitoring of UPS and battery alarms, online dashboard for real-time updates, mobile app for alarms and monthly report.

[PredictPulse](#) requires the [PXGX-UPS Card](#) and [Environmental Monitoring Probe](#)

Communication Options

Software Compatibility	Intelligent Power Manager, PowerVision, LanSafe, FORESEER, Power Xpert
Communication Cards	Standard system includes one ConnectUPS Web/ SNMP/-X Card with an Environment Monitoring Probe. Two communications bays standard. Four communication bays included. The following connectivity card options can be installed at any time: -Modbus Card -Relay Interface Card (Use for AS400's) -Industrial Relay Card (5A@120V) -Hot Sync CAN Bridge Card provides CAN communications, isolated RS-485 port -Environmental Monitoring Probe (EMP)
Remote Inputs/Outputs	Two building alarms inputs and one summary alarm contact (5A@120V) standard Four more building alarm inputs available with the Communications Expansion
Option Remote panel	Eight backlit status indicator lamps plus an audible horn

* See the Limited Factory Warranty for 9390 products for details. Batteries are warranted by the battery manufacturer and not by Eaton.

** Requires the Parallel Card option (RS-485 port) and requires an external 120V power supply to drive the remote monitor panel.

1. 600V applications require an input transformer.
2. At full load without battery discharge.
3. Output transformers are required if the desired output voltage is not the same as the input voltage.
4. 600V applications require an output transformer.

Due to continuing improvements, specifications are subject to change without notice.

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