TECHNICAL SPECIFICATIONS[1]

EATON 9390 UPS

UPS Rating (0.9 power factor)

kVA	20	30	40	50	60	80	100	120	160
kW	18	27	36	45	54	72	90	108	144

General characteristics

Efficiency	Up to 94% >99% with Energy Saver System
Parallel capability	Four modules with tie cabinet
Audible noise	<65 dBA @ 1 meter
Altitude (max)	2000m at 40ºC , 104ºF

Input characteristics

Voltage	208, 380, 400, 415, 480, 600[2]
Voltage range	+10% / -15%[3]
Frequency range	55-65 Hz
Power factor	0.99 (min)
Input current distortion	<4.5% (no input filter required)
Soft start capability	Yes
Internal backfeed protection	Yes
Broadcast global support	Yes

Output characteristics

Voltage	208[4], 380[4], 400[4], 415[4], 480[4], 600[5]
Regulation	±1%
Inverter	PWM with IGBT switching
Voltage THD	<2% (100% linear load); <5% (non-linear load)
Load power factor range	Down to 0.9pf leading without de-rating
Heat dissipation (BTU/Hr x 1000/Hr)	80 kVA, 208V: 23.6 160 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	384-480V
Temperature compensation	Optional
Charging method	ABM Technology

Dimensions and weights

20-80 kVA modules	HxWxD: 73.7 x 18.9 x 31.6 in./1872 x 480 x 803 mm
100-160 kVA modules	HxWxD: 73.7 x 35.6 x 31.6 in./1872 x 904 x 803 mm
20-80 kVA modules	640 lb./290 kg (208V); 568 lb./258 kg (480V)
100-160 kVA modules	1,060 lb./481 kg (208V, 480V)

Serviceability

Back/side against wall installation	Standard

Certification

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

Optional accessories

Module tie cabinet
External maintenance bypass
Integrated distribution cabinet
Isolation transformer

eNotify Remote Monitoring service option

24x7 remote monitoring of UPS and battery alarms, daily heartbeat check and monthly report required.

Communication options

Software compatibility - Intelligent Power Manager, FORESEER, Power Xpert
Communications cards - Two communications bays standard. Four communication bays included.
The following connectivity options can be installed at any time:
- Modus Card
- Relay Interface Card (Use for AS400s)
- Industrial Relay Card (5A@120V)
- Hot Sync CAN Bridge Card provides CAN communications, isolated RS-485 port
- Environmental Monitoring Probe (EMP)
- Power Xpert cards
Remote inputs/outputs - two building alarms inputs and on 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. Due to continuing improvements, specifications are subject to change without notice.
2. 600V applications require an input transformer.
3. At full load without battery discharge.
4. Output transformers are required if the desired output voltage is not the same as the input voltage.
5. 600V applications require an output transformer.

Learn more at
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