

TECHNICAL SPECIFICATIONS¹

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%, +10% from nominal 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 kVA - 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 53.5 (530 x 800 x 1360) 40-60 kVA - 23.6 x 31.5 x 74.9 (600 x 800 x 1880)
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

9E EBC runtimes

kVA	Internal runtime (minutes)	Internal + external runtime (minutes)
20	21	138
30	12	84
40	12	128
60	6.6	77

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 (3) Building inputs

ENVIRONMENTAL

Operating Temperature	0°C (32°F) to +30°C (86°F); Batteries recommended max. +25°C (77°F)
Storage Temperature	-25°C (-13°F) to +55°C (131°F) without batteries +15°C (59°F) to +25°C (77°F) with batteries
Relative Humidity	5–95%, non-condensing
Audible Noise	< 65 dBA at 1 meter (noise less room) typical
Altitude	< 1500m at +30°C (86°F)

CERTIFICATIONS

Safety Certifications	UL1778
EMI Standards	EN55022/EN55024
EMC Compliance	IEC 62040-2
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.



Graphical LCD display shows UPS status and offers easy access to options and settings.

For more information visit: Eaton.com/93E