

Technical Specifications for 30 kVA UPS EATON 9355 **or Equivalent.**

Power

Ratings (kVA/Watts) 30 kVA/27 kW at 0.9 power factor

Topology Double conversion

Electrical Input

Nominal input voltage 208V/120V 3 PHASE 5 WIRE

Operating frequency 50/60 Hz

Input power factor 0.99 typical

Input current distortion <5% THD

Electrical Output

Nominal output voltage 208/120 Vac

Output voltage regulation $\pm 1\%$ static; $\pm 4\%$ dynamic with 100% step load recovery within 1 ms response time

Efficiency 91%, typical

Heat dissipation (BTU/hr) 30 kVA models:
9,220 @ 208V input

Battery

Battery type 9 Ah, sealed, lead-acid, maintenance-free

Battery runtime 60 min

Battery replacement Field-replaceable

Charger	Default is 8A
General	
Diagnostics	Full system self-test at startup
UPS bypass	Automatic on overload or UPS failure, plus external bypass.
Parallel for redundancy	Yes
Overload	150% for 5 sec / 125% for 1 min (online), 110% for 10 min
Communications	
LCD display	Graphical LCD with blue backlight
LEDs	(4) LEDs for notice and alarm
Audible alarms	Yes
Communication ports	(1) RS-232, (1) relay contact, (1) REPO, (2) environmental input
Communication slot	(2) X-Slot communication bays
Power management software	Bundled Software Suite CD
Environmental	
Operating temperature	50–104°F (10–40°C), 45°C with 7.5% derating; Optimal battery performance: 77°F (25°C)
Storage temperature	32–77°F (0–25°C); Recommended battery storage: 59– 77°F (15–25°C)
Relative humidity	0–95%, non-condensing

Audible noise	<58 dBA at 1 meter depending on load
Altitude	<3000m
Certifications	
Safety certifications	IEC 62040-1-1, IEC 60950, EN 62040-1-1, UL 1778, NOM-0190SCP8-1993
EMC compliance	EN 50091-2 Class A
Quality	ISO 9001: 2000 and ISO 14001:1996
Markings	UL, cUL, NOM-NYCE