

XTREME POWER CONVERSION **Li90** vs Eaton **9355 30K** COMPARISON

The Xtreme Power Li90 and Eaton 9355 are both high-performance, online double-conversion UPS systems designed to protect critical loads. The comparison below highlights key differences that demonstrate the Li90's performance, efficiency, and lifecycle advantages.



30kVA 208/120V 3 Phase UPS comparison

	Xtreme Power Li90 30kVA	Eaton 9355 30kVA	Advantage
Capacities	30kVA / 30kW	30kVA / 27kW	Li90 delivers full-rated power (unity PF) for maximum usable capacity.
Battery Technology	Lithium Iron Phosphate (LiFePO ₄)	Lead Acid	Li90's LiFePO ₄ batteries last up to 5x longer, offer wide temperature tolerance, and are 60% smaller and lighter than VRLA.
Efficiency / Heat Disapation	94.5 % (online) / 5,954 BTUH	91 % (online) / 9,220 BTUH	Li90's higher efficiency reduces heat output and cooling requirements.
Maintenance Bypass	Standard (integrated)	Standard (integrated)	Both include integrated maintenance bypass for seamless servicing.
Size (W x D x H) / Weight	12.6 x 35.2 x 49.2 in / 483 lb	20 x 34 x 66 in / 1160 lb	Li90 provides full 30 kW capacity in a compact, lightweight design, occupying less floor space than comparable systems.
Internal Battery Runtimes	15 minutes @ 30 kW	11 minutes @ 27 kW	Li90 provides longer runtime at full load.
Battery Life	Up to 15 years or 3000 to 5000 cycles (LiFePO ₄)	3–5 years or ~300 cycles (VRLA)	Li90 batteries last up to 5x longer than VRLA, reducing replacement and maintenance costs.
Temperature	Up to 50°C (122°F)	Up to 40°C (104°F)	Li90 operates reliably in higher ambient temperatures.
Battery Warranty	5 years (LiFePO ₄)	2 years (VRLA)	Li90 provides more than 2x the battery warranty coverage.
Start-up and Warranty	Start-up included; 2-year warranty (USA & Canada)	Start-up included; 1-year parts / 90 days labor	Li90 offers longer standard system warranty coverage.