

XTREME POWER CONVERSION **Li90** vs Vertiv **EXS 10K** COMPARISON

The Xtreme Power Li90 and Vertiv Liebert EXS are high-performance, online double-conversion UPS systems designed for critical three-phase loads. The Li90 differentiates itself with higher efficiency, dramatically longer lithium battery life, a significantly smaller and lighter footprint, higher operating-temperature tolerance, and longer warranty coverage—resulting in lower installation, maintenance, and total lifecycle costs.



10kVA 208/120 V Three-Phase UPS Comparison

	Xtreme Power Li90-10k1	Vertiv EXS10KXRN	Advantage
Capacities	10kVA / 10kW	10kVA / 10kW	Both deliver full-rated (unity PF) output for maximum usable capacity.
Topology	Online Double Conversion + ECO Mode	Online Double Conversion + ECO Mode	Equivalent premium protection with high-efficiency ECO operation.
Efficiency / Heat Disapation	94.5 % (online) / 1,985 BTUH	93.4 % (online) / 2,410 BTUH	High efficiency reduces energy consumption and cooling requirements
Maintenance Bypass	Standard (integrated)	Standard (integrated)	Both include integrated maintenance bypass for seamless servicing.
Size (W x D x H) / Weight with Base Battery	12.6 x 35.2 x 49.2 in (287 lb)	22.7 x 25.6 x 51.2 in (893 lb)	Li90 requires significantly less floor space. Over 65% lighter, simplifying installation and reducing floor-load requirements.
Internal Battery Runtime	15 minutes @ 10 kW (1 strings) 30 minutes @ 10 kW (2 strings) 45 minutes @ 10 kW (3 strings)	30 minutes @ 10kW	Comparable runtime achieved with smaller, lighter lithium battery strings.
Battery Life Design	Up to 15 years or 3000 to 5000 cycles (LiFePO ₄)	6-8 years or ~300 cycles (VRLA)	Significantly longer battery service life reduces replacements and downtime.
Temperature	Up to 50°C (122°F)	Up to 40°C (104°F)	Better suited for hot electrical rooms and edge deployments.
Battery Warranty	5 years (LiFePO ₄)	1 years (VRLA)	5x longer battery warranty lowers ownership risk.
Start-up and Warranty	Start-up included; 2-year warranty (USA & Canada)	1-year warranty	Longer standard coverage and included start-up reduce project costs.