

XTREME POWER CONVERSION **Li90** vs Vertiv **EXSV-30KTN** 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 far smaller and lighter footprint, higher operating temperature tolerance, and longer warranty coverage—delivering lower installation, maintenance, and total lifecycle costs.



30kVA 208/120 V Three-Phase UPS Comparison

	Xtreme Power Li90-30k3	Vertiv EXSV-30KTN	Li90 Advantage
Capacities	30kVA / 30kW	30kVA / 30kW	Both deliver full-rated (unity PF) output for maximum usable capacity.
Topology	Online Double Conversion + ECO Mode	Online Double Conversion + ECO Mode	Both provide premium protection with efficient ECO operation.
Efficiency / Heat Disipation	94.5 % (online) / 5,954 BTUH	93.4 % (online) / ~7,000 BTUH	Li90's higher efficiency lowers energy use and heat, reducing total operating costs.
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)	23.6 x 39.3 x 78.7 in (1521 lb)	Li90 occupies half the footprint and weighs two-thirds less, simplifying installation and reducing floor-load requirements.
Internal Battery Runtimes	15 minutes @ 30 kW	10 minutes @ 30kW	Longer runtime
Battery Life	Up to 15 years or 3000 to 5000 cycles (LiFePO ₄)	6-8 years or ~300 cycles (VRLA)	Li90 batteries last much longer than VRLA, reducing replacement and maintenance costs.
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 the battery warranty coverage.
Start-up and Warranty	Start-up included; 2-year warranty (USA & Canada)	1-year warranty	Factory start-up and provides longer standard system coverage.