XTREME POWER CONVERSION **Li90** // **E91** COMPARISON

The Li90 and E91 are both high-performance, online double-conversion UPS systems designed to protect critical loads. While the E91 offers a wider range of capacity options, the Li90 stands out with significantly longer runtimes, up to 10-year lithium battery life, higher temperature tolerance, and hot-swappable battery modules—making it ideal for demanding environments and reduced maintenance needs.

UPS COMPARISON

	Xtreme Power Li90	Xtreme Power E91	Advantage
Capacities	10kVA / 10kW 20kVA / 20kW 30kVA / 30kW	10kVA / 10kW 15kVA / 15kW 20kVA / 20kW 30kVA / 30kW 40kVA / 40kW	E91 offers greater flexibility for larger installations with available capacities up to 40kVA.
Battery Technology	Lithium Iron Phosphate ($LiFePO_4$)	Lead Acid	Li90's $LiFePO_4$ batteries last up to 5× longer, offer wide temperature tolerance, and are 60% smaller and lighter than VRLA.
Maintenance Bypass	Standard	Standard	Each unit includes an integrated maintenance bypass switch for seamless servicing without downtime.
Internal Battery Runtimes	15–45 minutes at full load	7–11 minutes at full load	Li90 delivers up to 4x the runtime, ideal for applications requiring longer battery backup without external cabinets.
Battery Life	Up to 10 years or 2000 cycles ($LiFePO_4$)	3–5 years or ~300 cycles (VRLA)	Li90 reduces long-term replacement costs with lithium batteries that last 2–3x longer than traditional VRLA.
Battery Replacement	Hot-swappable lithium battery modules"	Not hot-swappable	Li90 reduces long-term replacement costs with lithium batteries that last 2–3x longer than traditional VRLA.
Temperature	Up to 50°C (122°F)	Up to 40°C (104°F)	Li90 performs reliably in higher temperature environments, reducing the need for dedicated cooling.
Battery Warranty	5 years ($LiFePO_4$)	2 years (VRLA)	Li90 offers longer warranty coverage, reflecting greater confidence in lithium battery performance and durability.