

XTREME POWER CONVERSION **Li90** vs APC **Modular Ultra Online UPS** COMPARISON

The Xtreme Power Li90 and Schneider APC Smart-UPS Modular Ultra are both advanced, online double-conversion UPS systems designed to protect critical loads with high efficiency and reliability. While both models offer lithium battery technology, ECO mode operation, and hot-swappable components, they differ significantly in power capacity, operating temperature range, and deployment flexibility.



UPS COMPARISON

	Xtreme Power Li90	Schneider APC Modular Ultra Online	Advantage
Capacities	10kVA / 10kW 20kVA / 20kW, 30kVA / 30kW	5kVA / 5kW 10kVA / 10kW 15kVA / 15kW 20kVA / 20kW	Li90 offers broader capacity for larger installations (up to 30kVA). APC offers more size granularity and integrated N+1 redundancy.
Overload 150%	60 seconds	30 seconds	Li90 provides longer overload support for demanding applications.
Voltage Options	208/120V Three Phase	208/120V or 240/120V Single Phase	Choose based on site power: Li90 supports 3-phase or single-phase loads. APC supports only single-phase loads
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.
Battery Technology	Lithium Iron Phosphate (LiFePO ₄) with integrated BMS	Lithium-ion (unspecified chemistry)	LiFePO ₄ chemistry offers better safety, thermal stability, and longevity.
Maintenance Bypass	Standard (integrated)	Optional	Li90 includes a built-in maintenance bypass, reducing installation costs, simplifying site configuration, and enabling quicker service without external switchgear.
Battery Replacement	Hot-swappable lithium battery modules	Hot-swappable lithium battery modules	Both simplify field servicing with modular hot-swap battery options.
Temperature	Up to 50°C (122°F)	Up to 40°C (104°F)	Li90 handles higher temps—ideal for edge, industrial, or poorly cooled spaces.
Battery Warranty	5 years (LiFePO ₄)	5 years (Lithium-ion)	Equal coverage, but LiFePO ₄ batteries often outperform over time.