

XTREME POWER CONVERSION **Ai90** // Vertiv LIEBERT **APM2** COMPARISON

A modular rack-integrated UPS is ideal for modern infrastructure environments requiring high power density and flexible deployment. The Xtreme Power Ai90 delivers modular double-conversion protection with internal batteries in a compact 13U footprint. The Vertiv Liebert APM2 is a modular floor-standing UPS platform using a cabinet-based architecture with internal VRLA batteries for short-duration runtime.



40–80kW Modular UPS Comparison

Feature	Xtreme Power Ai90	Vertiv Liebert APM2	Ai90 Advantage
UPS Architecture	Modular rack-integrated UPS	Modular floor-standing UPS	Rack-level deployment
Battery Chemistry	VRLA (internal modular)	VRLA (internal modular)	Equivalent chemistry
Battery Runtime	Short-duration	Short-duration	Equivalent concept
Platform Range	50–70kW	10–120kW	Optimized for rack deployments
Efficiency	96.5%	Up to 97.5%	Comparable efficiency
Voltages	480/277V, 480V 3-wire, 400/230V	480/277V, 480V 3-wire, 400/230V	Equivalent voltage coverage
Form Factor	13U rack-mounted	Floor-standing cabinet	Fits within standard rack
Dimensions	17.2 × 36.2 × 22.75 in (W × D × H)	23.6 × 40.6 × 78.7 in (W × D × H)	80% smaller volume
Power Density	>5kW per U	Cabinet-based	Higher density deployment
Distribution	Integrated	External required	Reduced infrastructure
Maintenance Bypass	Integrated	Integrated	Equivalent functionality
Installation	Rack deployment	Floor-standing	Faster deployment