

XTREME POWER CONVERSION **Ai90** // Eaton **93PM** 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 Eaton 93PM is a modular floor-standing UPS platform with internal battery capability at lower power levels and a cabinet-based architecture.



40–50kW Modular UPS Comparison (Internal Battery Configurations)

Feature	Xtreme Power Ai90	Eaton 93PM	Ai90 Advantage
UPS Architecture	Modular rack-integrated UPS	Modular floor-standing UPS	Rack-level deployment
Battery Chemistry	VRLA (internal modular)	VRLA (internal batteries at 40–50kW)	Equivalent chemistry
Battery Runtime	Short-duration (~2 min @ 70kW)	Short-duration internal runtime	Equivalent concept
Platform Range	50–70kW	10–80kW modular platform	Optimized for rack deployments
Capacity	50–70kW	40–50kW (internal battery range)	Equivalent class
Efficiency	96.5%	Up to ~97%	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)	24 × 34 × 75 in (W × D × H)	70% 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