XTREME POWER CONVERSION **M90U** // XTREME POWER CONVERSION **E91**

The Xtreme Power M90U and the Xtreme Power E91 are both online double-conversion UPS systems designed for mission-critical applications. The M90U is a modular UPS platform that scales capacity and redundancy within a single chassis, while the E91 is a monolithic UPS with fixed capacity per frame. The comparison below highlights differences in scalability, footprint, serviceability, and overall system architecture.

UPS Platform Comparison

Feature	Xtreme Power M90U	Xtreme Power E91	Key Difference
Available Capacities	15, 20, 30, 40, 45, 60 kW	10, 15, 20, 30, 40 kW	Both deliver unity power factor output
Topology	Online double conversion	Online double conversion	Equivalent power protection
Scalability Model	Modular power expansion within one chassis	Fixed capacity per UPS	Modular vs fixed architecture
Ease of Expansion	Add power modules to increase capacity or add N+1 redundancy	Requires replacement with larger UPS	M90U supports growth without UPS replacement
Battery Configuration	Internal modular batteries or external cabinets	Internal batteries or external cabinets	Both support internal and extended runtime
Physical Footprint	20.3”W × 39.4”D × 54”H (all capacities)	Varies by model: • 10 kW: 9.9”W × 26.3”D × 32.3”H • 15–20 kW: 11.9”W × 34”D × 40.2”H • 30–40 kW: 23.6”W × 36.3”D × 65.6”H	E91 fits smaller standalone spaces; M90U consolidates higher power in one frame
User Interface	5.7” LCD display	4.3” color LCD	Larger display on M90U
Service & Maintenance	Hot-swappable power modules and modular battery trays	Board-level service and individual batteries	Faster service and lower MTTR with M90U
Redundancy Approach	N+1 within a single UPS chassis	No internal redundancy	Built-in redundancy vs single-path design