

XTREME POWER CONVERSION **M90S-6S** // Eaton **9PXM8S16K** COMPARISON

The Xtreme Power Conversion M90S-6S and the Eaton 9PXM8S16K are modular, online double-conversion UPS systems designed to protect mission-critical IT, network, and edge infrastructure loads. While both platforms support modular growth and redundant architectures, the M90S-6S delivers higher usable power at unity power factor, longer internal runtime, and integrated service features, making it better suited for higher-density applications and future load growth.



16 kVA to 18 kVA UPS Comparison

Feature	XTREME POWER M90S-6S	Eaton 9PXM8S16K	M90S Advantage
UPS Capacity	18 kVA / 18 kW (Unity PF)	16 kVA / 14.4 kW (0.9 PF)	25% more usable kW, supporting higher load density without oversizing
Topology	Online double conversion	Online double conversion	Equivalent double-conversion protection for critical loads
Internal Runtime (High Load)	9 min @ 18 kW	6 min @ 14.4 kW (base battery)	Longer baseline runtime, reducing reliance on external battery modules
Maintenance Bypass	Standard integrated bypass	Optional / external	Built-in bypass lowers installation cost and saves space
Rack / Tower Mounting	Rack mount kit available (M90S-RMK) or tower	Rack / tower convertible	Flexible deployment options
Display & Diagnostics	Chassis-level LCD plus module-level displays	Single chassis-level LCD	More detailed local visibility simplifies commissioning and troubleshooting
Certifications & Compliance	UL, cUL, TAA Compliant	UL, cUL, TAA Compliant	Meets federal and regulated-market requirements
Warranty Coverage	3 years (electronics & batteries)	2-year limited warranty	Longer standard coverage reduces lifecycle risk