

# XTREME POWER CONVERSION **Li90-20k** vs Eaton **93PM-20k** COMPARISON

Both UPS systems deliver true online double-conversion protection for 208/120 V three-phase data center, healthcare, and critical infrastructure environments. However, the Xtreme Power Li90 provides advantages in lithium battery technology, operating temperature capability, and dramatically reduced system footprint.



## 20kVA / 20kW 208/120V Three-Phase Online UPS Comparison

Feature	Xtreme Power Li90 (20kVA)	Eaton 93PM (20kVA)	Li90 Advantage
Model Reference	Li90-20k	93PM – 9GC104A025E20R1	Comparable system class
Capacity	20kVA / 20kW (Unity PF)	20kVA / 20kW (Unity PF)	Equal real power capacity
Topology	Online Double Conversion	Online Double Conversion	Equal protection
Battery Technology	Lithium Iron Phosphate (LiFePO <sub>4</sub> )	VRLA (Lead-Acid)	Much longer battery life
Battery Life Expectancy	Up to 15 years / 3,000–5,000 cycles	~3–5 years	Dramatically fewer replacements
Efficiency (Online Mode)	94.5%	Up to 95%	Comparable efficiency
Operating Temperature	Up to 50 °C (122 °F)	40 °C (104 °F)	Better high-temperature tolerance
Dimensions	12.6"W × 35.2"D × 49.2"H	22"W × 42"D × 74"H	Much smaller cabinet
Weight	387 lb (two internal battery modules)	1,276–1,918 lb depending on battery strings	Much lighter installed system
Floor Footprint	3.1 sq ft	6.4 sq ft	50% smaller footprint
Battery Warranty	5-year lithium battery	2-year VRLA battery	Longer coverage