

# XTREME POWER CONVERSION **Li90-20k** vs APC **GALAXY VS 20kVA (GVSUPS20KR0B5FS)** COMPARISON

Both UPS systems provide true online double-conversion protection for 208/120 V three-phase healthcare, industrial automation, and facility infrastructure environments. The Xtreme Power Li90 platform offers advantages in lithium battery lifecycle performance, high-temperature capability, and substantially reduced cabinet weight supporting modernization-focused deployment strategies.



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

Feature	Xtreme Power Li90-20k	APC Galaxy VS 20kVA (GVSUP-S20KR0B5FS)	Li90 Advantage
Model Reference	Li90-20k	GVSUPS20KR0B5FS	Comparable system class
Capacity	20kVA / 20kW	20kVA / 20kW	Equal real power capacity
Topology	Online Double Conversion	Online Double Conversion	Equal protection
Battery Technology	Lithium Iron Phosphate (LiFePO4)	VRLA (Lead-Acid)	Longer lifecycle performance
Battery Life Expectancy	Up to 15 years / 3,000–5,000 cycles	3–5 years typical	Fewer battery replacements
Efficiency (Online Mode)	94.5%	95.2%	Comparable efficiency
Operating Temperature	Up to 50 °C	40 °C typical	Better high-temperature tolerance
Maximum Internal Runtime	22 minutes (3 strings)	15 minutes (5 strings)	Higher runtime per lithium cabinet
Dimensions	12.6W × 35.2D × 49.2H in	21.7W × 33.3D × 77.6H in	Much shorter cabinet height
Weight	467 lb	1000 lb	Significantly lighter installed system
Floor Footprint	3.1 sq ft	5.0 sq ft	Reduced electrical-room footprint
Battery Warranty	5-year lithium battery	2-year VRLA battery typical	Longer coverage with Li90