

# XTREME POWER CONVERSION X90-1S

1 Slot Modular Online UPS // 480VAC 3W Three-Phase 50kW-70kW

For more information, visit [www.xpcc.com/x90-1s](http://www.xpcc.com/x90-1s)



## Compact, Modular 480V UPS with Integrated Batteries and Maintenance Bypass

The Xtreme Power X90-1S is a high-performance 480V UPS system that delivers clean, reliable power for critical infrastructure. Designed around a single 50 or 70kVA power module, the X90-1S features modular, scalable battery capacity to meet varying runtime requirements.

This fully integrated solution includes internal batteries and a built-in maintenance bypass—all in a single compact cabinet—making it the smallest footprint in its class. Ideal for data centers, industrial automation, medical systems, and modular IT environments.

For larger 480V UPS, reference X90-2S [www.xpcc.com/X90-2S](http://www.xpcc.com/X90-2S), X90-5S [www.xpcc.com/X90-5S](http://www.xpcc.com/X90-5S) and X90-10S [www.xpcc.com/X90-10S](http://www.xpcc.com/X90-10S)

### PRODUCT SNAPSHOT

- › Capacities: 50kW, 70kW
- › 65kAIC rating
- › Easy to swap power and battery modules
- › UL-1778, cUL, FCC A, RoHS, TAA
- › 2 year warranty (USA and Canada)

### FEATURES

**Integrated Battery System** – Supports up to 11 minutes at 50kW load in a single cabinet

**Compact All-in-One Footprint** – Only 23.6" wide with internal maintenance bypass and batteries

**High Efficiency Operation** – Up to 96.5% in online mode; 99% in ECO mode to reduce energy costs

**Full Front Access** – No rear clearance needed for maintenance or service

**Dual or Single Input Capability** – Flexible input configuration supports varied site requirements

**10" Color Touchscreen Display** – Intuitive interface for real-time status and alarm monitoring

**Heavy-Duty Casters with Floor Bracket** – Simplifies positioning and secures the unit in place

**Top Cable Entry Standard** – Streamlines installation in tight or overhead environments

## MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/x90-1s](http://www.xpcc.com/x90-1s)

MODEL NUMBER		X90-1S50k	X90-1S70k
CAPACITY	Power rating	50kVA/50kW	70kVA/70kW
CABINET	X90-1S UPS: power modules	50kW or 70kW	
CAPACITY	X90-1S UPS: battery modules	12 or 16 battery modules	
	X90-BC: battery modules	Up to 36 additional battery modules	
INPUT	Voltage/frequency nominal	480VAC (3W), 50/60Hz auto-sensing	
	Voltage/frequency range	480VAC or +20/-20% VAC three-phase, 40-70Hz	
OUTPUT	Voltage/frequency range	480VAC (3W), 50/60Hz auto-sensing	
	Efficiency	Up to 96.5% online mode or 99% ECO mode	
	Overload capacity	105%-110% for 60min; 110%-125% for 10min; 126%-150% for 1min; >150% for 200ms	
BATTERY SYSTEM	Nominal voltage	+/-240VDC	
	Charge Current (programable)	18A	18A
DIMENSIONS & WEIGHTS	UPS & battery cabinet (W x D x H)	23.6 x 42 x 58 in 591 lbs (UPS) / 23.6 x 42 x 79 in 416 lbs (X90-BC)	
	Power & battery module (W x D x H)	17.2 x 29.5 x 5.1 in 106 lbs (PM) / 17.2 x 29.5 x 5.25 in 70 lbs (BM)	
ENVIRONMENT	Temperature	0–40°C (32–104°F)	
	Altitude	5,200 ft above sea level	
	Audible noise (typical)	< 59dBA at 1m	
APPROVALS		UL-1778, cUL, FCC A, RoHS, TAA	
WARRANTY		2 years (USA and Canada)	
COMMUNICATIONS INTERFACE		RS-232, EPO, Relays, Intelligent slot for optional cards (Web/SNMP, Modbus)	
INCLUDED IN BOX		User manual, RS-232 cable, unloading ramp, ViewPower Software	
AVAILABLE OPTIONS		External maintenance bypass, battery temperature sensor	

## BATTERY RUNTIMES

	X90-1S UPS			X90-1S UPS + X90-BC								
Battery Modules	8	12	16	20	24	28	32	36	40	44	48	52
50kW	-	7	11	15	18	22	26	30	34	38	43	47
70kW	-	-	7	10	12	15	17	20	23	26	28	31

*Runtimes are shown in minutes and will vary based on battery age and site conditions.*

