

XTREME POWER CONVERSION Li90 10kW-30kW

10kW-30kW | 208/120VAC Three-Phase | Compact. Powerful. Lithium Safe



Advanced Lithium UPS for Demanding Environments

The Li90 is a compact, high-performance 208V three-phase online UPS that uses advanced Lithium Iron Phosphate (LiFePO₄) batteries, delivering up to three times the life of traditional VRLA systems. Its narrow footprint makes it ideal for tight installations in industrial, edge, and IT environments.

Designed for demanding applications, the Li90 provides clean, reliable power in high-temperature conditions up to 50°C. Hot-swappable battery modules allow maintenance without downtime, and it's backed by a 5-year battery warranty and 2-year on-site UPS warranty—offering long-term reliability with lower maintenance costs.

For more three phase UPS solutions, reference the E91 at www.xpcc.com/E91

PRODUCT SNAPSHOT

- › Available models: 10kW, 20kW, 30kW
- › Unity power factor
- › Lithium Iron Phosphate Battery Modules
- › Approvals: UL1778, UL38.3, UL1973
- › Startup and 2 Year on-site warranty (USA only)
- › 5 year battery warranty (USA only)

FEATURES

Long-Life LiFePO₄ Batteries

— Up to 15 years of service life and 3,000 to 5,000 discharge cycles

Maintenance Bypass —

Integrated bypass allows safe, on-site service without shutdown

Hot Swappable Battery Modules

— Fast replacement with no system downtime

Smart De-Dust Fans —

Self-cleaning fans help extend service life

Slim Cabinet Design —

Just 12.6" wide—ideal for edge, automation, and retrofit installations

Conformal Coated PCBs

— Enhanced protection in industrial and high-humidity environments

Touchscreen LCD Interface

— 4.3" full-color display with single-line mimic and event logging

Flexible Input Options —

Supports single or dual input (rectifier & bypass); pre-installed jumpers included

High Overload Capacity —

110% for 60 minutes, 150% for 1 minute—built for surges and startup loads

Advanced Communication

— 2 card slots, RS485, USB, EPO, 1 input & 5 output dry contacts; optional SNMP

MODEL SELECTION GUIDE

For more information, visit www.xpcc.com/Li90

MODEL NUMBER		Li90-10K	Li90-20K	Li90-30K
CAPACITY	Power rating	10kVA/10kW	20kVA/20kW	30kVA/30kW
INPUT	Voltage / Range	208/220 (3W+N+G) / 120V-156V linear derating, 156V-268V at full load		
	Frequency		40-70Hz	
OUTPUT	Voltage / Frequency	190/200/208/220±1% (L-L) ±1% (default is 208V) / 50/60±0.1 (battery mode)		
	Overload Capacity - Online Mode	<105% Continuous, <110% 60 min, <130% 10 min, <150% 1 min, <200% 200 ms		
	Efficiency	up to 94.5% online mode or 99% ECO mode		
INTERNAL BATTERY	Battery type	Lithium Iron Phosphate (LFP) Module		
	Modular Battery Capacity	50AH / 57.6V / 2880Wh		
	Battery Quantity	1 Module (1-3 Selectable)	2 Module (2-3 Selectable)	3 Modules
	Charge Current	2A - 40A Selectable (20A default)		
PHYSICAL	Dimensions (W x D x H)	12.6"W x 35.2"D x 49.2"H*		
	Enclosure Weight	207 lbs	227 lbs	243 lbs
	Battery Weight	80 lbs per module		
ENVIRONMENT	Operating temperature	23F-122F (-5C-50C) Derates above 104F (40C)		
	Audible noise	<63dB (10, 20kW), <68dB (30kW)		
	Relative humidity	0 - 95% (non condensing)		
	Altitude	6,500 ft above sea level		
APPROVALS		UL1778, UL38.3, UL1973		
WARRANTY		5-year battery warranty, 2-year on-site UPS warranty**		
COMMUNICATIONS INTERFACE		RS485, EPO, Dry contact (1 input, 5 output)+2 Slots+SNMP (optional)		
INCLUDED IN BOX		User manual, USB cable		
AVAILABLE OPTIONS		External maintenance bypass		

*Add 3.9" to depth for terminal block cover. 5-year warranty is not applicable for installations where the ambient temperature exceeds 30°C. • **2-year battery warranty for installations where the ambient temperature exceeds 40°C (104°F) and is less than 50°C (122°F)

BATTERY RUNTIMES

Load:	Internal Batteries						
	5kW	10kW	15kW	20kW	25kW	30kW	
1 Module	29	15	-	-	-	-	
2 Modules	58	30	20	15	-	-	
3 Modules	87	45	30	22	18	15	

Approximate runtimes are shown in minutes and will vary based on battery age and site conditions.

XTR^{ME}
Power Conversion®

Protect your business.

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Li90 front view



Li90 rear view

Hot-swappable LiFePO₄ battery modules provide up to 15 years of service life and enable easy maintenance without downtime

Two communication slots for optional cards

Full breaker design
Input/output/
maintenance
bypass

Input and Output
Terminal Block
Section