

# 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 (LiFePO<sub>4</sub>) 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](http://www.xpcc.com/E91)

**XTREME**  
Power Conversion®  
Protect your business.

### 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 LiFePO<sub>4</sub> Batteries** — Up to 10 years of service life and 2,000+ charge cycles

**Hot Swappable Battery Modules** — Fast replacement with no system downtime

**Slim Cabinet Design** — Just 12.6" wide—ideal for edge, automation, and retrofit installations

**Touchscreen LCD Interface** — 4.3" full-color display with single-line mimic and event logging

**High Overload Capacity** — 110% for 60 minutes, 150% for 1 minute—built for surges and startup loads

**Maintenance Bypass** — Integrated bypass allows safe, on-site service without shutdown

**Smart De-Dust Fans** — Self-cleaning fans help extend service life

**Conformal Coated PCBs** — Enhanced protection in industrial and high-humidity environments

**Flexible Input Options** — Supports single or dual input (rectifier & bypass); pre-installed jumpers included

**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](http://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) |                           |            |
|                          | Oveload 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.

## 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.

Hot-swappable LiFePO<sub>4</sub> battery modules provide up to 10 years of service life and enable easy maintenance without downtime.



Li90 front view

Programmable dry contacts including 1 input and 5 output



Li90 rear view

Two communication slots for optional cards

Full breaker design Input/output/maintenance bypass

Input and Output Terminal Block Section

**X-TREME**  
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