

# XTREME POWER CONVERSION P91 Li 1.5-3kVA

Lithium-Ion // Online UPS // 120VAC



## High performance online UPS with up to 15-year battery lifespan

The P91 Lithium-Ion UPS combines advanced online double conversion protection with long-life lithium iron phosphate (LiFePO<sub>4</sub>) batteries. LiFePO<sub>4</sub> technology delivers up to 15 years of battery life and up to four times longer life than lead acid, eliminating maintenance and replacement cycles.

Compared to lead acid systems, it offers higher temperature tolerance, longer internal runtimes, and faster recharge. The P91 Li provides the cleanest power for demanding applications including edge computing, point of sale, wall mount racks, and light industrial environments.

For P91 1-3kVA lead acid UPS, reference the P91 [www.xpcc.com/p91\\_1-3/](http://www.xpcc.com/p91_1-3/)

### PRODUCT SNAPSHOT

- › Available models: 1500VA, 2000VA, 3000VA
- › Tower, wall, 2-post, and 4-post rack mounting configurations
- › UL, cUL, RoHS, FCC A, UN38.3, TAA compliant
- › Hot swappable internal lithium-ion battery pack
- › \$50,000 load protection policy

### FEATURES

**6 Year Full Warranty** — industry leading coverage for both lithium batteries and UPS electronics.

**Auto restart**—after full battery discharge, the P91 Li automatically restarts when utility power returns

**Online Double Conversion** — most robust protection of mission-critical and light industrial applications

**Lower Weight** — 30% less than typical lead acid UPS

**Longer runtimes** — Internal runtimes up to 5 times longer than lead-acid UPS

**Battery Management System** — provides over voltage, over current and over temperature protection

**Long Life Battery** — LiFePO<sub>4</sub> batteries provide protection for up to 15 years or 3000 to 5000 discharges

**50 °C (122 °F) Operation** — rated for high-temperature environments. Derates above 40 °C (104°F)

## MODEL SELECTION GUIDE

MODEL NUMBER		P91-1.5kLi	P91-2kLi	P91-3kLi
CAPACITY	Power rating	1500VA (1350W)	2000VA (1800W)	3000VA (2700W)
INPUT	Voltage/frequency	55–150VAC* / 50/60Hz auto-sensing		
OUTPUT	Voltage	100**/110/115/120/127 VAC selectable		
	Waveform	Pure sine wave: <=2% THD (linear load), <=4% THD (non-linear load)		
	Frequency	50/60Hz ± 0.1Hz		
	Efficiency	Up to 98% ECO mode or 94% online mode		
Overload capacity		Online mode: 110% & ≤ 130% for 5 min; > 130% & ≤ 140% for 30 sec; >140% for 1.5 sec		
BATTERY	Cell type	LFP26650 2600 mAh		
	Cell configuration	15S2P	15S2P x2	24S1P x 3
	Charger voltage	52.5VDC		
	Charger current	2/4/6/8A (4A default), adjustable through LCD		
	Recharge time	1.5 hours to 90% charge		
PHYSICAL	Dimensions (W x D x H)***	17.2 x 15.1 x 3.4	17.2 x 19 x 3.4	17.2 x 23.8 x 3.4
	Weight (lbs)	25.6	33.5	45.2
	Line cord	6 ft, 5–15P	6 ft, 5–20P	6 ft, L5–30P
	Receptacles	(8) NEMA 5-15R	(8) NEMA 5-15/20R	L5–30R+(6)5-15/20R
ENVIRONMENT	Operating temperature	32–122°F (0–50°C)**** with derating above 104°F (40°C)		
	Altitude	6,500 ft above sea level		
APPROVALS		UL, cUL, RoHS, FCC Class A, battery packs comply to UL1973, UN38.3, TAA compliant		
WARRANTY		6 years electronics, 6 years battery warranty (USA and Canada)****		
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)		
INCLUDED IN BOX		ViewPower software, front brackets, tower pedestals, user manual		
AVAILABLE OPTIONS		Switched, metered-by-outlet power distribution (SPDU), bypass distribution (XBDM), 4-post rail kit, 2-post shelf kit, wall mount bracket		

\*Depending on load level. \*\*Derate capacity to 80% when the output voltage is adjusted to 100VAC. \*\*\*Rack depth is front bracket to unit panel. Add 1" for depth including front bezel. \*\*\*\* 2-year warranty for installations where the ambient temperature exceeds 40°C (104°F) and is less than 50°C (122°F)

### BATTERY RUNTIMES

Percentage load:	Internal batteries									
	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
P91-1.5kLi	101	49	31	23	17	15	12	10	8	7
P91-2kLi	148	72	46	35	27	22	19	16	15	13
P91-3kLi	115	56	36	26	21	17	15	13	11	10

Runtimes are estimated in minutes. Runtimes will vary based on battery condition, age, cycles, and ambient temperature.



Hot swappable battery tray

P91-1.5Li front view

P91-1.5Li front view

P91-1.5Li front view

P91-1.5Li front view

EPO

Programmable outlet group



Surge protection for RJ45

Intelligent slot for optional communication card

Programmable outlet group

**X-TREME**  
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**TAA**

