

# XTREME POWER CONVERSION P91 Li 1.5-3kVA

Lithium-Ion // Online UPS // 120VAC



## High performance online UPS with up to 10 year battery lifespan

The P91 lithium-ion UPS combines game-changing lithium-ion batteries with the advanced power protection of online double conversion technology.

Lithium Iron Phosphate (LiFePO4) batteries provides battery life of up to 10 years, eliminating the battery maintenance and refresh needs of UPS with lead-acid batteries. When compared to lead acid batteries, lithium-ion batteries provide more than twice the service life, higher temperature tolerance, longer internal runtimes, and faster recharge.

P91 online double conversion technology provides the cleanest power in the most challenging conditions including edge computing, point of sale, and light industrial.

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/1350W, 2000VA/1800W, 3000VA/2700W
- › Up to 10 year battery life
- › Online double conversion technology
- › Tower, wall, 2-post, and 4-post rack mounting configurations
- › UL, cUL, RoHS, FCC A, UN38.3 for battery transportation
- › 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.

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

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

**Longer lifespan** — Up to 2000 full discharge cycles. Up to 10 times more than lead-acid

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

**Lower Weight** — 25% less than typical lead acid UPS

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

**Maintenance bypass** — optional XBDM bypass module enables the P91 to be replaced or serviced without interruption of power

# MODEL SELECTION GUIDE

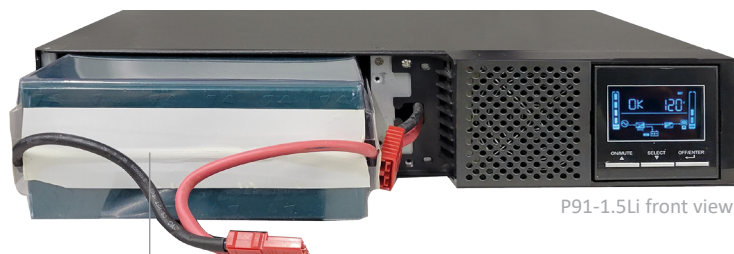
MODEL NUMBER		P91-1.5kLi	P91-2kLi	P91-3kLi
CAPACITY	Power rating	1500VA (1350W)	2000VA (1800W)	3000VA (2700W)
INPUT	Voltage/frequency	55–150VAC* / 50/60Hz auto-sensing		
OUTPUT	Voltage	100**/110/115/120/127 VAC selectable		
	Waveform	Pure sine wave: <=2% THD (linear load), <=4% THD (non-linear load)		
	Frequency	50/60Hz ± 0.1Hz		
	Efficiency	Up to 98% efficiency		
	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		84VDC
	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 3.5	17.2 x 19 x 3.5	17.2 x 23.8 x 3.5
	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	32–104°F (0–40°C)		
	Altitude	11,500 ft above sea level		
APPROVALS	UL, cUL, RoHS, FCC Class A, battery packs comply to UL1973, UN38.3 for battery transportation			
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	Bypass distribution (XBDM), power distribution (XPDU), 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.

## BATTERY RUNTIMES

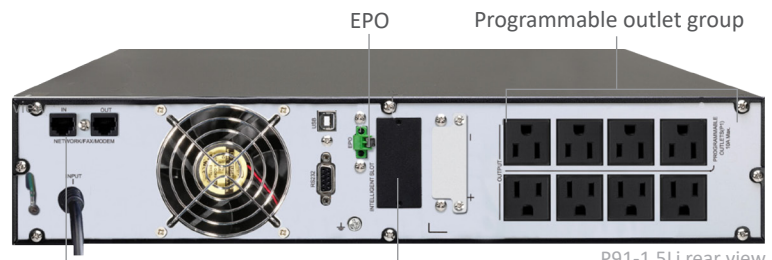
Percentage load:	Internal batteries									
	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
P91-1.5kLi	111	54	34	25	19	16	13	11	9	8
P91-2kLi	163	79	51	38	30	24	21	18	16	14
P91-3kLi	127	62	40	29	23	19	16	14	12	11

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



Hot swappable battery tray

P91-1.5Li front view



Surge protection for RJ45

Intelligent slot for optional communication card

P91-1.5Li rear view

**X-TREME**  
Power Conversion®

Protect your business.

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