XTREME POWER CONVERSION **J90 5kW Li**

Lithium Iron Phosphate // Online UPS // 208–240 VAC



5 kW of Online Power in 1U, with Lithium Iron Phosphate Runtime

The J90 5kW is an online double-conversion UPS for servers, storage and network equipment on 208–240 V circuits. The UPS is 1U and 21.9 in deep. Runtime comes from external 1U lithium iron phosphate (LFP) battery packs: one pack carries a full 5 kW load for 5 minutes, and up to five packs can be connected.

LFP chemistry is thermally stable and rated for up to 15 years of service life in ideal conditions. The UPS operates to 50 °C (122 °F), so it suits network closets and edge sites with limited cooling.

Optional PDUs add L6-20R and L6-30R receptacles. The XBDM-J90A adds a maintenance bypass switch, and the XPD-IT60A isolation PDU provides isolated 240/120 V output for 120 V loads.

For the J90 5kW with lead-acid battery packs, see www.xpcc.com/j90-5kw

PRODUCT SNAPSHOT

- 5000 VA / 5000 W, 208–240 VAC
- Online double conversion, 0 ms transfer time
- 1U UPS with external 1U LFP battery packs (up to 5)
- LFP battery rated for up to 15 years of service life in ideal conditions
- L6-30P line cord and (2) L6-30R output receptacles
- 6 years electronics, 6 years battery warranty (USA and Canada)*

FEATURES

1U Form Factor
5 kW in a 1U chassis, 21.9 in deep. 2U total with one battery pack.

High-Temperature Operation
Delivers the full 5000 W up to 50 °C (122 °F) with no derating.

LFP Battery with BMS
Lithium iron phosphate cells with an integrated battery management system. Battery pack tested to UL 1973.

PDU & Maintenance Bypass
Optional XPD50 PDU or XBDM-J90A bypass PDU adds (2) L6-20R and (2) L6-30R receptacles.

Isolation Transformer
Optional XPD-IT60A steps 208 or 240 V down to isolated 240/120 V, with (12) 5-15/20R receptacles.

Smart LCD Display
Real-time status, load and battery information on the front panel.

Emergency Power Off
EPO input shuts the UPS down from a remote switch.

Remote Monitoring
Optional Web/SNMP card. USB port and ViewPower software included.

Equipment Coverage
Includes a $50,000 load protection policy for connected equipment.

Efficient Operation
Up to 95% online efficiency.

XTREME Power Conversion®

Protect your business.

MODEL SELECTION GUIDE

	MODEL NUMBER	J90-5k with BPLi1U192A Lithium Iron Phosphate Battery Pack		
CAPACITY	Power rating	5000 VA (5000 W)		
INPUT	Voltage / frequency	208/220/230/240 VAC, 50/60 Hz auto-sensing		
	Voltage range	176–300 VAC at full load; down to 110 VAC at 50% load or less		
	Rated input current	26 A		
	Power factor	≥ 0.99 at full linear load		
OUTPUT	Voltage	208/220/230/240 VAC (selectable), ±1%		
	Frequency	50/60 Hz, ±0.5% on battery; frequency converter mode (derated to 60%)		
	Waveform	Pure sine wave: ≤ 2% THD (linear load), ≤ 4% THD (non-linear load)		
	Transfer time	0 ms, line to battery		
	Overload capacity	105–125% for 1 min; > 125% for 1 s, then transfer to bypass		
	Efficiency	Up to 95% online		
BATTERY	Battery type	External BPLi1U192A battery pack, lithium iron phosphate (LFP) with BMS		
	Battery pack rating	192 VDC, 3 Ah (576 Wh) per pack; up to 5 packs		
	Recharge time	3 hours to 90% (one pack)		
UPS PHYSICAL	Dimensions (W x D x H)	17.2 x 21.9 x 1.7 in (438 x 556 x 44 mm), 1U		
	Weight	25.4 lbs (11.5 kg)		
	Line cord	10 ft, L6-30P		
	Receptacles	(2) L6-30R on short cords		
BATTERY PACK PHYSICAL	Dimensions (W x D x H)	17.2 x 20.9 x 1.7 in (438 x 530 x 44 mm), 1U		
	Weight	34.2 lbs (15.5 kg)		
OPTIONAL PDU OR BYPASS DISTRIBUTION	Model	XPD50 PDU	XBDM-J90A Bypass PDU	XPD-IT60A Isolation PDU
	Input connection	L6-30P line cord	L6-30P line cord	L6-30P line cord
	Output receptacles	(2) L6-20R, (2) L6-30R	(2) L6-20R, (2) L6-30R	(12) 5-15/20R, (1) L6-30R
	Dimensions (W x D x H)	17.2 x 3.0 x 1.7 in	17.2 x 4.7 x 1.95 in	17.3 x 18.0 x 3.5 in
ENVIRONMENT	Operating temperature	32–122 °F (0–50 °C), no derating		
	Humidity	0–90%, non-condensing		
	Audible noise	< 55 dBA		
	Altitude	6,500 ft (2,000 m) above sea level		
APPROVALS		UL 1778 / CSA C22.2 No. 107.3 (pending); FCC Part 15 / ICES-003 Class A (pending); UL 1973 battery pack; UN 38.3; RoHS; TAA compliant		
WARRANTY		6 years electronics, 6 years battery (USA and Canada)*		
COMMUNICATIONS		USB port; intelligent slot for optional Web/SNMP or relay/dry contact card; EPO input		
INCLUDED IN BOX		Rack-mount brackets, USB cable, battery cable, user manual; ViewPower software (download)		
AVAILABLE OPTIONS		4-post rail kit, 2-post shelf kit		

*Depth is front bracket to rear panel; add 1 in for the front bezel. *2 years for continuous operation above 40 °C (104 °F); 2 years depot repair outside the USA and Canada.*

BATTERY RUNTIMES (MINUTES)

	BPLi1U192A Lithium Battery Packs								
Load (kW):	1	1.5	2	2.5	3	3.5	4	4.5	5
1 pack	19	16	13	10	8.6	7.8	7.1	6.1	5.2
2 packs	42	35	29	22	19	17	15	13	11
3 packs	63	53	43	34	28	26	23	20	16
4 packs	86	73	59	46	39	35	32	27	22
5 packs	109	92	75	58	49	45	41	34	28

Typical runtimes at 25 °C with new batteries.



J90-5k with BPLi1U192A battery pack, rear view

XTREME Power Conversion®

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