

XTREME POWER CONVERSION P90L 6kVA & 10kVA

Online UPS // 208/230VAC or 240/120VAC

For more information,
visit www.xpcc.com/p90l6-10



Reduce power consumption and increase end to end efficiency with this powerful single-phase UPS

Designed for high density critical loads, the P90L delivers industry leading reliability, efficiency and flexibility.

P90L can be configured for online or ECO mode operation for efficiency of up to 98%. Output voltage and frequency are programmable to meet a wide range of USA and international requirements.

P90L has a high capacity internal charger model available for connection to matching extended battery packs or large external battery systems.

For bypass and distribution options, reference the XBDM at www.xpcc.com/xbdm and XPDU at www.xpcc.com/xpdu

PRODUCT SNAPSHOT

- › Available models: 6kVA/5.4kW, 10kVA/9kW
- › 2A and 4A charger models available
- › Tower, 2-post, and 4-post rack mounting configurations available
- › UL, cUL, CE, RoHS certifications
- › 3 years electronics, 3 years battery warranty (USA and Canada)

FEATURES

0.9 output power factor—P90L systems provide more real capacity for high density loads

Frequency converter—P90L can be programmed to convert from 50Hz to 60Hz or 60Hz to 50Hz

Isolation transformer—optional isolation transformer with integral maintenance bypass for 240/120VAC loads

Extended runtimes—P90L can be connected with large external battery systems or optional matching battery packs

98% efficient operation—high efficiency ECO mode lowers energy consumption

Hot swappable battery—P90L optional battery packs are easy to replace without interrupting the load

Multiple communications capability—RS-232, USB, and optional Web/SNMP, Modbus, Relay/dry contact cards

\$50,000 load protection policy—protection against damaged connected equipment

XTREME
Power Conversion®

Protect your business.

MODEL SELECTION GUIDE

For more information, visit www.xpcc.com/p90l6-10

MODEL NUMBER		P90L-6K	P90L-10K
CAPACITY	Power rating	6kVA (5.4kW)	10kVA (9kW)
INPUT	Voltage	110–300VAC*	
	Frequency	50/60Hz	
OUTPUT	Voltage	200/208/220/230/240VAC** 240/120VAC with optional isolation transformer with maintenance bypass	
	Frequency	50/60Hz ± 4Hz	
	THD (full load)	< 2%	
	Overload capacity	110% 10 min; 130% 1 min; > 130% 1 sec	
	Efficiency	Up to 98% ECO mode and 92% online mode	
BATTERY CHARGER	Charger amps	2A (K model); 4A model (KH model)	
	Nominal/float voltage	240/270VDC	
PHYSICAL	UPS dimensions (W x D x H)	17.2 x 26.3 x 5.3 in	17.2 x 29.5 x 5.3 in
	UPS weight	55 lbs	60 lbs
	Input connection	Terminal block with 6 ft, L6–30P	Terminal block
	Output connection	Terminal block with 3 ft, L6–30R	Terminal block
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)	
	Audible noise	< 58dBA	< 60dBA
	Altitude	11,500 ft above sea level	
OPTIONAL BATTERY PACKS	Model number	P90L-BP240	
	Dimensions (W x D x H)	17.3 x 25.1 x 5.3 in	
	Weight	165 lbs	
	Battery quantity/type	(20) 12V 9AH / 240V	
OPTIONAL TRANSFORMER	Dimensions (W x D x H)	17.3 x 28.7 x 3.5 in	17.3 x 31.8 x 5.2
	Weight	99 lbs	122 lbs
APPROVALS		UL, cUL, RoHS, CE	
WARRANTY		3 years electronics, 3 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		Software CD, horizontal brackets, tower pedestals	
AVAILABLE OPTIONS		5 year extended warranty, power distribution (XPDU), 4-post rail kit, 2-post shelf kit, isolation transformer with maintenance bypass	

*Depending on load level; **P90L capacity derates 10% at 200VAC output voltage

BATTERY RUNTIMES

	UPS + (1) BP		UPS + (2) BP		UPS + (3) BP		UPS + (4) BP		UPS + (5) BP		UPS + (6) BP		UPS + (7) BP		UPS + (8) BP	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
P90L-6K	26	10	61	25	101	42	144	61	191	80	240	101	291	122	343	144
P90L-10K	13	4	32	13	53	22	76	32	101	42	127	53	153	65	181	76

For applications requiring 3 or more battery packs, use KH model with 4A charger. Runtimes are shown in minutes and will vary based on battery condition, age, cycles, and ambient temperature.

Intelligent slot for optional Web/SNMP, Modbus, Relay/dry contact cards

Emergency power off (EPO)

Terminal block connections shown with cords removed



Input breaker

Terminal block connections shown with cords and cover removed

Maintenance bypass switch

Battery breaker

X-TREME
Power Conversion®

Protect your business.

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P90L-6K, P90L-ISO6MB, P90L-BP240 rear view