XTREME POWER CONVERSION **X90-2S 4W**

2 Slot Modular Online UPS // 480/277VAC 4W + G Three-Phase 50kW–140kW

For more information, visit www.xpcc.com/x90-2s

Scalable, Modular, Compact 480/277V Four-Wire UPS

The X90-2S 4W is a scalable modular online double conversion UPS that protects critical data and equipment from power problems while supplying clean and reliable network grade power.

The four-wire output distributes a neutral, so 277VAC line-to-neutral loads connect directly — no downstream step-down transformer, and no separate distribution path for single-phase branch circuits.

The fully integrated X90-2S UPS includes maintenance bypass and batteries (up to 100kW) in a single cabinet, providing the most compact footprint and simplifying installation.

For 480VAC three-wire applications, reference the X90-2S www.xpcc.com/x90-2s

PRODUCT SNAPSHOT

- Capacities: 50kW, 70kW, 100kW, 140kW
- 480/277VAC four-wire output with distributed neutral
- 65kAIC rating
- Hot swappable power and battery modules
- UL-1778 , cUL, FCC A, RoHS, TAA
- 2 year warranty (USA and Canada)

FEATURES

277V single-phase loads— four-wire output supports 277VAC line-to-neutral branch circuits directly

Highest availability— system can be configured with redundant power and battery modules

Reduce energy cost— online efficiency up to 96.5% and ECO mode up to 99%

Power module ratings— 50kW or 70kW modules available

Internal Batteries— internal batteries provide up to 6 minutes at 100kW load

Full front access— no rear clearance required for maintenance

Unbalanced loading— four-wire topology carries unbalanced single-phase loads across phases

Maintenance bypass— integral front bypass enables maintenance and repair

Large Touchscreen LCD display—10” display provides graphic display including status and alarms

Dual or single utility input— provides maximum installation flexibility

Cable Access—top cable access is standard. Optional 6” side car kit is available for bottom entry

XTREME Power Conversion®
Protect your business.

MODEL SELECTION GUIDE

For more information, visit www.xpcc.com/x90-2s

MODEL NUMBER		X902S-4W50K	X902S-4W70K	X902S-4W100K	X902S-4W140K
CAPACITY	Power rating	50kVA/50kW	70kVA/70kW	100kVA/100kW	140kVA/140kW
CABINET CAPACITY	X90-2S UPS: power modules	Up to 140kW (2 x 70kW) or up to 100kW (2 x 50kW)			
	X90-2S UPS: battery modules	4, 8, 12, 16 or 20 battery modules			
	X90-BC: battery modules	Up to 36 additional battery modules			
INPUT	Voltage/frequency nominal	480/277VAC (4W + G), 50/60Hz auto-sensing			
	Voltage/frequency range	480VAC or +20/-20% VAC three-phase, 40-70Hz			
OUTPUT	Voltage/frequency range	480/277VAC (4W + G), 50/60Hz auto-sensing			
	Load unbalance	100% unbalanced load capability			
	Efficiency	Up to 96.5% online mode or 99% ECO mode			
	Overload capacity	105%-110% for 60min; 110%-125% for 10min; 126%-150% for 1min; >150% for 200ms			
BATTERY SYSTEM	Nominal voltage	+/-240VDC			
	Charge Current (programable)	18A	18A	36A	36A
DIMENSIONS & WEIGHTS	UPS & battery cabinet (W x D x H)	23.6 x 42 x 79 in / 864 lbs (UPS) / 23.6 x 42 x 79 in / 576 lbs empty (BC), +70 lbs per battery module			
	Power & battery module (W x D x H)	17.2 x 29.5 x 5.1 in / 106 lbs (PM) 17.2 x 29.5 x 5.25 in / 70 lbs (BM)			
ENVIRONMENT	Temperature	0–40°C (32–104°F)			
	Altitude	5,200 ft above sea level			
	Audible noise (typical)	< 69dBA at 1m			
APPROVALS		UL-1778, cUL, FCC A, RoHS, TAA			
WARRANTY		2 years (USA and Canada)			
OPTIONAL COMMUNICATIONS INTERFACE		RS-232, EPO, Relays, Intelligent slot for web cards (Web/SNMP, Modbus)			
INCLUDED IN BOX		User manual, RS-232 cable, unloading ramp, ViewPower Software			
AVAILABLE OPTIONS		External maintenance bypass, battery temperature sensor, side car kit for bottom cable access (increases width by 6")			

BATTERY RUNTIMES

	X90-2S UPS				X90-2S UPS + X90-BC								
Battery Modules	8	12	16	20	24	28	32	36	40	44	48	52	56
30kW	9	15	21	27	34	41	48	56	63	71	79	87	95
50kW	-	7	11	15	18	22	26	30	34	38	43	47	52
70kW	-	-	7	10	12	15	17	20	23	26	28	31	35
80kW	-	-	6	8	10	13	15	17	19	22	24	27	29
100kW	-	-	-	6	7	9	11	13	15	17	18	20	22
140kW	-	-	-	-	-	6	7	8	10	11	12	14	15

Runtimes are shown in minutes and will vary based on battery age and site conditions.

X90-2S 4W 100kW UPS (door removed)

X90-BC Battery Cabinet

Protect your business.
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www.xpcc.com

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