

# XTREME POWER CONVERSION M90C-6S

6 Slot Modular Online UPS // 208/120VAC Three-Phase 5-24kW

For more information, visit [www.xpcc.com/m90c-6s](http://www.xpcc.com/m90c-6s)



## Compact Three-Phase Modular UPS for Continuous Power

Xtreme Power M90C-6S UPS is a scalable, modular, flexible solution that combines continuous power availability and the highest efficiency for mission critical applications.

M90C provides unity power factor output providing maximum usable power and avoids any need to oversize the UPS. Maintenance bypass and output distribution within the UPS frame eliminate the need for external component connections, reducing installation costs.

Capacity, redundancy, battery runtime, and output receptacles can all be customized to meet your specific needs. Hot swappable power and battery modules provide rapid maintenance and repair.

For 5kW or 8kW rack mount configurations, reference at [www.xpcc.com/m90c-2s](http://www.xpcc.com/m90c-2s)

### PRODUCT SNAPSHOT

- › Six capacities: 5kW, 10kW, 15kW, 8kW, 16kW, 24kW
- › Modular for capacity or redundancy
- › Unity output power factor (kVA=kW)
- › Hot swappable power and battery modules
- › Up to 98% ECO mode or 93% online efficiency
- › 2 years electronics, 2 years battery warranty (USA and Canada)

### FEATURES

**Scalable**—when power or runtime requirements change, modules can be added to increase capacity

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

**Large LCD display**—5.7" display provides graphic display including status and alarms

**Optional receptacle panels**—fully configurable output receptacle panels

**Power module LCD**—each power module includes LCD display, providing module detailed information and redundancy

**Maintenance bypass**—manually transfer critical loads from UPS power to utility power, enabling M90C maintenance

**Reduce energy cost**—best in class energy efficiency provides lowest energy consumption and heat output

# MODEL SELECTION GUIDE

For more information, visit [www.xpcc.com/m90c-6s](http://www.xpcc.com/m90c-6s)

MODEL NUMBER		M90C-6S5K	M90C-6S10K	M90C-6S15K	M90C-6S8K	M90C-6S16K	M90C-6S24K
CAPACITY	Power Rating	5kVA/5kW	10kVA/10kW	15kVA/15kW	8kVA/8kW	16kVA/16kW	24kVA/24kW
INPUT	Voltage/Frequency Nominal	120/208V, 50/60Hz auto-sensing (3PH+N+G)					
	Voltage/Frequency	120/208V, 50/60Hz; (3PH+N)					
OUTPUT	Voltage & Frequency	120/208V 50/60Hz ± 0.1Hz; (3PH+N)					
	Efficiency / THD (full load)	Up to 98% ECO mode, 93% online mode / ≤2% (Linear load); ≤3% (Non linear load)					
	Overload Capacity	100% - 110% for 30 min; 110% - 130% for 5min; 130% - 150% for 10s; > 150% for 200ms					
BATTERY SYSTEM	Nominal Voltage	+/-96Vdc or +/-120Vdc (+/-96Vdc default)					
	Max charging (adjustable)	4A	8A	12A	4A	8A	12A
MODULE DIMENSION & WEIGHT	Power Module	16.3"W x 24"D x 5.2"H / 38 lbs					
	Battery Module	16.3"W x 24"D x 5.2"H / 107 lbs					
SYSTEM ENCLOSURE	Dimensions & Weight	17.4"W x 33.7"D x 45.5"H (UPS & BC7) // UPS=169 lbs / BC7=162 lbs					
	Maximum Capacity	24kW					
	Enclosure Capacity	6 slots including 3 universal slots and 3 battery only					
	Optional Battery Enclosure	7 slots for additional battery modules					
	Output Connections	Terminal blocks and/or up to 4 receptacle panels					
ENVIRONMENT	Temperature	0–40°C (32–104°F)					
	Altitude	5,200 ft above sea level					
	Audible noise	< 58dBA at 1m					
APPROVALS	UL-1778 (TUV), cUL, FCC A, RoHS, TAA compliant						
WARRANTY	2 year electronics, 2 year battery (USA and Canada)						
COMMUNICATIONS INTERFACE	RS-232, USB, dry contacts, EPO, (2) intelligent slots for optional cards (Web/SNMP, Relay, Modbus)						
INCLUDED IN BOX	User manual, USB cable, RS-232, ViewPower software, anchor brackets						
AVAILABLE OPTIONS	L21-20P line cord (5kW), L21-30P line cord (8kW), receptacle panels (4 max), extended battery cabinet, 5 year extended warranty						

\*Depending on load level

## BATTERY RUNTIMES

Battery Modules	6S UPS					6S UPS + 1 BC7							6S UPS + 2 BC7				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
5kW	12	28	46	66	86	106	121	133	151*	170*	190*	209*	228*	248*	268*	288*	308*
10kW	N/A	12	20	28	37	46	56	66	76	86	96	106	114	121	127	133	142*
15kW	N/A	7	12	17	23	28	34	40	46	53	59	66	72	79	86	93	100
Battery Modules	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
8kW	6	16	26	37	49	61	73	86	99*	110*	119*	127*	135*	147*	159*	170*	182*
16kW	N/A	6	11	16	21	26	32	37	43	49	55	61	67	73	79	86	92*
24kW	N/A	N/A	6	9	13	16	19	23	26	30	33	37	41	45	49	53	57

Runtimes are shown in minutes and will vary based on battery age and site conditions. Maximum 8 battery modules per UPS power module.

\*Additional power module(s) required for battery recharge. Contact [sales@xpcc.com](mailto:sales@xpcc.com) for longer runtimes.

Receptacle Panels	
A	(8) 5-20R
B	(2) C19 + (4) 5-20R
C	L6-30R + (2) C19
D	L14-30R + (2) C19
E	(2) L6-20R + (4) 5-20R
F	L6-20R + L6-30R + (4) 5-20R
G	L6-30R + (2) L6-20R
H	(3) L6-30R
I	(1) L21-20R and breaker
J	(1) L21-30R and breaker
K	(2) L21-20R
L	(2) L21-30R

Maximum of 4 receptacle panels per enclosure

**X-TREME**  
Power Conversion®

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**Maintenance Bypass**  
full wrap around maintenance bypass (located behind hinged LCD display)

**5kW or 8kW Power Modules**  
includes rectifier, charger, inverter and static switch

**Battery Module**  
includes 16 pieces of 12V 580W batteries



M90C-6S front view

## AC Terminal Blocks & Breakers

**Communication Module**  
provides dry contacts, EPO, RS232, USB and two slots for Web/SNMP, Modbus, or As400 cards

**Receptacle Panels**  
install up to 4

**DC Terminal Blocks**



M90C-6S rear view