12 Slot Modular Online UPS // 208/120VAC or 240/120VAC Single-Phase



Scalable, Modular, Flexible for Continuous Power Availability

Xtreme Power M90S UPS is a scalable, modular, flexible solution that combines continuous power availability and the highest efficiency for mission critical applications.

M90S provides unity power factor output (kVA = kW) providing maximum usable power and avoids any need to oversize the UPS. Integral maintenance bypass enables manual transfer of critical loads from UPS power to utility power, enabling UPS repair without power interruption to the load.

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

For capacities up to 24kW, reference the M90S-6S at www.xpcc.com/m90s-6s



PRODUCT SNAPSHOT

- Eight capacities: 6kW, 12kW, 18kW, 24kW, 30kW, 36kW, 42kW, 48kW
- Modular for capacity or redundancy
- > Hot swappable power and battery modules
- > Up to 98% ECO mode or 93% online efficiency
- > 3 years electronics, 3 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

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

Universal slots —UPS slots accept power modules or battery modules providing maximum capacity and runtime flexibility

System Touch LCD display — 10" display provides graphic system level display including status and alarms

Maintenance bypass manually transfer critical loads from UPS power to utility power, enabling M90S

maintenance

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

MODEL SELECTION GUIDE

MODEL NUMBER		M90S- 12S6K	M90S- 12S12K	M90S- 12S18K	M90S- 12S24K	M90S- 12S30K	M90S- 12S36K	M90S- 12S42K	M90S- 12S48K		
CAPACITY	Power Rating	6kW	12kW	18kW	24kW	30kW	36kW	42kW	48kW		
INPUT	Voltage/Frequency Nominal		120/208V or 120/240V // 50/60Hz auto-sensing 120/240V								
	Connections				2PH-	-N+G					
OUTPUT	Voltage & Frequency		120/20	08V or 120/	240V // 50/	60Hz auto-s	uto-sensing 120,				
	Connections 2PH+N										
	Efficiency / THD (full load) Up to 98% ECO mode, 93% online mode / ≤2% (Linear load);≤3% (Non linear load)						r load)				
	Overload Capacity	100% - 1	10% for 30 r	30 min; 110% - 130% for 5min; 130% - 150% for 10s; > 150% for 200ms							
BATTERY SYSTEM	Nominal Voltage	+/-96VDC (default) or +/-120VDC									
	Max charging (adjustable)				4A per Pov	er Module					
MODULE	Power Module	16.3"W x 24"D x 5.2"H / 38 lbs									
DIMENSIONS	Battery Module (M90S-BMXRV2)	16.3"W x 24"D x 5.2"H / 107 lbs									
& WEIGHT	Battery Module (M90-BCBAT)			7.3"	W x 38.5"D	x 3.2"H / 8	5 lbs	ng ng ng ad);≤3% (Non linear % for 10s; > 150% fo ut modules ut modules d Canada) rds (Web/SNMP, Relar			
ENCLOSURE	M90S-12S UPS		23.6	5"W x 36.0"	D x 79.1"H	// 586 lbs w	inear load);≤3% (Non linear load) 1% - 150% for 10s; > 150% for 200 -120VDC ule / 38 lbs / 107 lbs / 85 lbs os without modules bs without modules F) evel - A, RoHS				
DIMENSIONS & WEIGHTS	M90-BC External Battery Cabinet		23.6	5"W x 43.8"	D x 79.1"H	// 416 lbs v	vithout mod				
ENVIRONMENT	Temperature	0-40°C (32-104°F)									
	Altitude				5,200 ft abo	ve sea leve	l				
APPROVALS	PPROVALS UL-1778 (TUV), cUL, FCC A, RoHS										
WARRANTY 3 year electronics, 3 year battery (USA and Cana					da)						
COMMUNICATION	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, standard anchor brackets										

BATTERY RUNTIMES

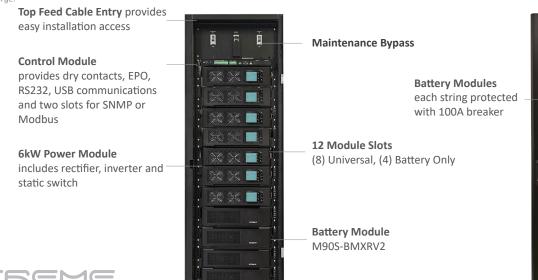
Battery	M90S-12S UPS with internal battery modules (+/-96VDC)										
Modules	1	2	3	4	5	6	7	8	9	10	
6KW	9	23	37	53	69	86	103	117	127*	139*	
12KW	-	9	16	23	30	37	45	53	61	69	
18KW	-	-	9	14	18	23	27	32	37	-	
24KW	-	-	6	9	13	16	19	23	-	-	
30KW	-	-	-	7	9	12	15	-	-	-	
36KW	-	-	-	-	7	9	-	-	-	-	
42KW	-	-	-	-	6	-	-	-	-	-	
48KW	-	-	-	-	-	-	-	-	-	-	

Battery	Change to M90S-12S UPS with M90-BC (+/-120VDC)									
Modules	4	8	12	16	20	24	28	32		
6KW	32	77	127	175	228*	285*	337*	391*		
12KW	14	32	53	77	103	127	150	175		
18KW	7	19	32	46	61	77	94	112		
24KW	-	14	22	32	42	53	65	77		
30KW	-	10	17	24	32	40	49	58		
36KW	-	7	14	19	25	32	39	46		
42KW	-	5	11	16	21	26	32	38		
48KW	-	-	9	14	17	22	27	32		

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 required for battery recharge.

No Internal batteries in M90S-12S UPS enclosure. Maximum 16 battery modules per UPS power module (1A per string). *Additional power module required for battery recharge.



M90S-12S 42kW with 6 minute

M90-BC front view

Protect your business

XPC USA / Denver, CO / sales@xpcc.com

Power Conversion®

www.xpcc.com