

XTREME POWER CONVERSION M90S 2 Slot

Online UPS // 208/120VAC Single-Phase

For more information, visit www.xpcc.com/m90s2s



Modular, Flexible UPS for Continuous Power Availability

Xtreme Power M90S UPS is a 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. Maintenance bypass and output distribution within the UPS frame eliminates the need for external component connections, reducing installation costs.

The flexible M90S 2 slot easily installs into a standard rack enclosure with optional rail kit. Output receptacles can be customized to meet your specific needs.

For a 4 slot or 6 slot enclosure reference at www.xpcc.com/m90s4s or www.xpcc.com/m90s6s

PRODUCT SNAPSHOT

- › Capacity: 6kVA/6kW
- › Up to 98% ECO mode or 93% online efficiency
- › Unity output power factor (kVA = kW)
- › Hardwired or cord/ receptacle configurations
- › 3 years electronics, 3 years battery warranty (USA and Canada)

FEATURES

Maintenance bypass— full wrap around rear-mounted maintenance bypass

Optional receptacle panel— fully configurable output receptacle panel

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

Dual voltage output— 240/120V or 208/120V supports mixed voltage loads and receptacle types

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

Rack mount kit— Up to 6kW of power handling capability in a rack mount configuration

LCD display— LCD display of power metering for individual phases and system summary

MODEL SELECTION GUIDE

For more information, visit www.xpcc.com/m90s2s

MODEL NUMBER		M90S-2S6K
CAPACITY	Power Rating	6kVA/6kW
INPUT	Voltage/frequency nominal	120/208V or 120/240V & 50/60Hz auto-sensing (2PH+N+G)
	Voltage/frequency range	152-269VAC* (L-L) / 40-70Hz
OUTPUT	Voltage / Frequency	120/208V or 120/240V & 50/60Hz ± 0.1Hz; (2PH+N)
	THD (full load)	<=2% (Linear Load); <=3% (None-linear Load)
	Efficiency	Up to 98% ECO mode, 93% online mode
	Overload capacity	100% - 110% for 30 min; 110% - 130% for 5min; 130% - 150% for 10s; > 150% for 200ms
BATTERY SYSTEM	Nominal voltage	+/-96V
	Max charging (adjustable)	4A
	Optional Battery Enclosure	7 slots for additional battery modules
DIMENSIONS & WEIGHT	Power module	16.3"W x 24" D x 5.2"H (3U) / 38 lbs
	Battery module	16.3"W x 24"D x 5.2"H (3U) / 107 lbs
	Battery Enclosure	17.4"W x 33.7"D x 45.5"H (26U) / 162 lbs
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
WARRANTY		3 year electronics, 3 year battery (USA and Canada)
COMMUNICATIONS INTERFACE		RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay, Modbus)
INCLUDED IN BOX		User manual, USB cable, R2-232 cable, ViewPower Software
AVAILABLE OPTIONS		L14-30P line cord, receptacle panel, extended battery cabinet, 5 year extended warranty, 4-post rail kit

*Depending on load level **Battery Life is reduced above 30°C, UPS Capacity derates above 30°C and 5,200 ft above sea level.

BATTERY RUNTIMES

Battery Modules	1		2		3		4		5		6		7		8	
Percentage load:	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
M90S-2S6K	21	9	49	22	80	35	111	50	131	66	160	82	189	99	220	113

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

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

Maximum of 1 receptacle panel per enclosure

6kVA/6kW Power Module
includes PFC rectifier, battery charger, inverter and control circuits

Battery Module
includes 16 pieces of 12V 580W batteries (2 trays)



M90S-2S front view

Optional receptacle panel

Maintenance Bypass Switch



M90S-2S rear view

AC Terminal Blocks & breakers

X-TREME
Power Conversion®

Protect your business.

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

XPC EMEA / Rotterdam, NL / emea@xpcc.com

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