

XTREME POWER CONVERSION M90C-2S

2 Slot Online UPS // 208/120VAC Three-Phase

For more information, visit www.xpcc.com/m90c-2s



Modular Three Phase UPS for Continuous Power Availability

Xtreme Power M90C UPS is a 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 over-size the UPS. Maintenance bypass and output distribution within the UPS frame eliminates the need for external component connections, reducing installation costs.

The flexible M90C-2S easily mounts into a standard 19" rack or installs as a tower with a caster base. Line cord, and output receptacles can be customized to meet your specific needs.

For a 6 slot enclosure reference
at www.xpcc.com/m90c-6s

XTREME
Power Conversion®
Protect your business.

PRODUCT SNAPSHOT

- › Capacity: 5kW or 8kW
- › Up to 98% ECO mode or 93% online efficiency
- › Unity output power factor
- › Hardwired or Plug and Receptacle configurations
- › 2 year warranty (USA and Canada)

FEATURES

Maintenance bypass—

Simplifies UPS repair or replacement and reduces costly downtime

Optional receptacle panel—

configure with L21-20R or L21-30R output receptacles

Reduce energy cost—

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

\$50,000 load protection

policy—offers protection against damaged connected equipment

Rack or tower mount—

rail kits or caster base configurations available

LCD display—

LCD display of power metering for individual phases and system summary

Line cord—

optional input cord set simplifies field installation



MODEL SELECTION GUIDE

For more information, visit www.xpcc.com/m90c-2s

MODEL NUMBER		M90C-2S5K	M90C-2S8K
CAPACITY	Power Rating	5kVA/5kW	8kVA/8kW
INPUT	Voltage/frequency nominal	120/208V, 50/60Hz auto-sensing (3PH+N+G)	
	Voltage/frequency range	152-269VAC* (L-L) / 40-70Hz	
OUTPUT	Voltage / Frequency	120/208V, 50/60Hz $\pm 0.1\text{Hz}$; (3PH+N)	
	THD (full load)	$\leq 2\%$ (Linear load); $\leq 3\%$ (Non 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	$\pm 96\text{Vdc}$ or $\pm 120\text{Vdc}$ ($\pm 96\text{Vdc}$ default)	
	Max charging (adjustable)	4A	
MODULE DIMENSIONS & 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	M90C-2S enclosure	17.3"W x 31.5"D x 10.5"H (6U) / 34 lbs	
	Input connections	Terminal blocks or L21-20P line cord	Terminal blocks or L21-30P line cord
	Output connections	Terminal blocks or optional output receptacles	
ENVIRONMENT	Temperature	0-40°C (32-104°F)	
	Altitude	5,200 ft above sea level	
	Audible noise	< 58dBA at 1m	
APPROVALS		UL-1778, cUL, FCC A, RoHS, TAA compliant	
WARRANTY		2 year warranty (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		L21-20P or L21-30P line cord, receptacle panel, extended battery cabinet, caster base, 5 year extended warranty, 4-post rail kit	

*Depending on load level

BATTERY RUNTIMES

Load (kW)	1kW	2kW	3kW	4kW	5kW	6kW	7kW	8kW
M90C-2S5K	85	38	22	15	12	-	-	-
M90C-2S8K	85	38	22	15	12	9	7	6

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	
M90C-RPI	(1) L21-20R and breaker
M90C-RPJ	(1) L21-30R and breaker

Maximum of 1 receptacle panel per enclosure

Modular Design
back plane connector for ease of installation and maintenance of UPS and Battery modules



M90C-2S front view

Optional
Receptacle Panel

Input breaker

Maintenance Bypass

Output breaker



M90C-2S rear view

X-TREME
Power Conversion®

Protect your business.

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

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

www.xpcc.com

©2023 Xtreme Power Conversion Corporation. All Rights Reserved. M90C.01U (1/19/23)