XTREME POWER CONVERSION **M90L**

Modular Online UPS // 208/120VAC Three-Phase

For more information, visit www.xpcc.com/m90l



Mission Critical Availability while reducing costs with Scalable, Modular M90 for 15kVA to 60kVA applications

The M90L 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.

M90L can be configured with a fully redundant power modules. Should one module fail, the remaining modules smoothly take over the load. Because the power modules are independent, they can be hot swapped without risk to the critical load.

As power requirements change, M90L modularity makes it easy to add modules and increase capacity.

For M90 with internal batteries reference www.xpcc.com/m90

PRODUCT SNAPSHOT

- Six capacities: 15kVA, 20kVA, 30kVA, 40kVA, 45kVA, 60kVA
- Modular for capacity or redundancy
- Hot swappable power modules
- Certified 94.1% online mode, or 98% ECO mode
- Remote control and monitoring options
- UL-1778 (TUV), cUL, FCC A, RoHS, TAA Compliant (select models)
- 2 years UPS warranty (USA and Canada)

FEATURES

Scalable—when power requirements change M90 modularity makes it easy to add modules and increase capacity

Highest availability—system can be configured with redundant power modules

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

Dual or single utility input—provides maximum installation flexibility

Extended battery packs—external battery cabinets available for extended runtime

Maintenance bypass—manually transfer critical loads from UPS power to utility power, enabling M90 maintenance

Large LCD display—5.7” display provides graphic display including status and alarms

XTREME Power Conversion®

Protect your business.

MODEL SELECTION GUIDE

For more information, visit www.xpcc.com/m90l

MODEL NUMBER		M90L-15	M90L-30	M90L-45	M90L-20	M90L-40	M90L-60
CAPACITY	Power Rating	15kVA/13.5kW	30kVA/27kW	45kVA/40.5kW	20kVA/18kW	40kVA/36kW	60kVA/54kW
	Enclosure capacity: power modules	Up to 45kVA (3 x 15kVA)			Up to 60kVA (3 x 20kVA)		
INPUT	Voltage/frequency nominal	208Y/120V three-phase, 50/60Hz auto-sensing					
	Voltage/frequency range	121–253VAC* (L-L), 40–70Hz					
OUTPUT	Voltage / Frequency	208Y/120V three-phase, 50/60Hz ± 0.5Hz					
	THD (full load)	< 2%					
	Efficiency	Certified 94.1% online mode, or 98% ECO mode					
	Overload capacity	105%-110% for 60min; 110%-125% for 10min; 126%-150% for 1min; >150% for 200ms					
DIMENSIONS & WEIGHT	Enclosure	20.3"W x 41.3"D x 30"H / 227 lbs					
	Power module	19.0”W x 28.0”D x 5.1”H / 74 lbs					
M90-BC BATTERY SYSTEM	Charge current (max)	8A	16A	24A	8A	16A	24A
	Dimensions & weight	23.6”W x 43.3”D x 79.1”H / 735 lbs + 85 lbs per module					
	Hot Swappable battery modules	Up to 8 strings with individual breakers (4 per string)					
ENVIRONMENT	Temperature	0–40°C (32–104°F)**					
	Altitude	5,200 ft above sea level**					
	Audible Noise	< 65dBA at 1m					
APPROVALS		UL-1778 (TUV), cUL, FCC A, RoHS, TAA (select models)					
WARRANTY (UPS)		2 years UPS (USA and Canada)					
COMMUNICATIONS INTERFACE		RS-232, EPO, intelligent slot for optional cards (Web/SNMP, Relay, Modbus)					
INCLUDED IN BOX		User manual, RS-232 cable, ramp for unloading UPS enclosure					
AVAILABLE OPTIONS		External maintenance bypass, 480V input transformer, output distribution, external battery pack, battery temperature sensor					

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

M90-BC BATTERY RUNTIMES

System Load (kVA)	5	10	15	20	25	30	35	40	45	50	55	60
4 battery modules	24	19	11	7	-	-	-	-	-	-	-	-
8 battery modules	57	46	27	19	15	11	9	7	-	-	-	-
12 battery modules	96	77	46	32	24	19	16	13	11	10	8	7
16 battery modules	133	111	66	46	34	27	22	19	16	15	13	11
20 battery modules	173	141	88	61	46	36	30	25	22	19	17	15
24 battery modules	214	174	111	77	58	46	38	32	27	24	21	19
28 battery modules	256	209	130	93	70	56	46	39	33	29	26	23
32 battery modules	303	244	152	111	83	66	54	46	39	34	30	27

Runtimes are shown in minutes and will vary based on battery age and site conditions. For longer runtimes please contact sales@xpcc.com

Maintenance Bypass
full wrap around maintenance bypass with static switch interface

Cable Entry
cable entry for M90L is on rear, side or bottom



M90L back view



M90L (door removed)

M90-BC

UPS Power Module
20kVA/18kW or 15kVA/13.5kW

Up to 8 Battery Strings
Strings each protected with 100A breaker

Battery Module
hot swappable module

Power Conversion®

Protect your business.

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

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

www.xpcc.com

©2019 Xtreme Power Conversion Corporation. All Rights Reserved. M90L.01U (3/21/19)