XTREME POWER CONVERSION **M90**

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

For more information, visit www.xpcc.com/m90

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

The M90 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.

M90 can be configured with a fully redundant power module and battery 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, M90 modularity makes it easy to add modules and increase capacity.

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, Energy Star
- 2 year electronics, 2 year battery warranty (USA and Canada)

FEATURES

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

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

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

Mounting—– Standard Floor Mount Brackets included. Seismic Hold Down Anchorage available

ENERGY STAR

XTREME Power Conversion®

Protect your business.

MODEL SELECTION GUIDE

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MODEL NUMBER		M90-15	M90-30	M90-45	M90-20	M90-40	M90-60
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)		
	Enclosure capacity: battery modules	Up to 12 internal battery modules					
INPUT	Voltage / frequency nominal	208/120V, 50/60Hz auto sensing					
	Voltage / frequency range	121–253VAC* (L-L), 40–70Hz					
OUTPUT	Voltage / Frequency	208/120V, 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					
BATTERY SYSTEM	Nominal voltage	± 120V					
	Charge Current (programable)	8A	16A	24A	8A	16A	24A
DIMENSIONS & WEIGHT	Enclosure	20.3"W x 39.4"D x 54"H / 484 lbs					
	Power module	19.0”W x 28.0”D x 5.1”H / 74 lbs (20kVA) / 72 lbs (15kVA)					
	Battery module	4.1”W x 28.3”D x 6.0”H / 68 lbs					
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, Energy Star					
WARRANTY		2 years (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, Floor Mount Brackets					
AVAILABLE OPTIONS		External maintenance bypass, 480V input transformer, temperature compensation, Seismic Hold Down Anchorage					

**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

System Load (kVA)	5kVA	10kVA	15kVA	20kVA	25kVA	30kVA	35kVA	40kVA	45kVA	50kVA	55kVA	60kVA
2 battery modules*	16	6	2.6	-	-	-	-	-	-	-	-	-
4 battery modules	37	16	9	6	4	2.6	-	-	-	-	-	-
6 battery modules	60	26	16	11	8	6	4	3.4	2.6	-	-	-
8 battery modules	84	37	22	16	12	9	7	6	5	4	3.2	2.6
10 battery modules	109	48	29	21	16	12	10	8	7	6	5	4
12 battery modules	126	60	37	26	20	16	13	11	9	8	7	6

*Runtimes are shown in minutes and will vary based on battery age and site conditions. *2 battery modules are only for use with (1) 15kVA power module configuration*

LCD Display
5.7” display provides graphic display including status and alarms

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

Battery Module
removable battery pack trays

M90 front view (panel removed)

Maintenance Bypass
full wrap around maintenance bypass with static switch interface

STS & Control
includes control, power and communication circuits, static transfer switch and fuses

Cable Entry
cable entry for M90 is on rear, side or bottom

Cabinet Skirt
optional cabinet skirt covers wheels and leveling feet

M90 rear view

XTREME Power Conversion®

Protect your business.

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