

XTREME POWER CONVERSION M90-80

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



Mission critical availability with scalable, modular, high density M90-80 for 15kVA to 80kVA applications

The M90-80 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.

M90-80 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 modules are independent, they can be hot swapped without risk to the critical load.

For capacities up to 140kVA N+1 reference
www.xpcc.com/m90-140

PRODUCT SNAPSHOT

- › Capacities: 15kVA/13.5kW, 20kVA/18kW, 30kVA/27kW, 40kVA/36kW, 45kVA/40.5kW, 60kVA/54kW, 80kVA/72kW
- › Modular for capacity or redundancy
- › Hot swappable power and battery modules
- › UL-1778 (TUV), cUL (TUV), FCC A, RoHS, TAA
- › 2 year electronics, 2 year battery warranty (USA and Canada)

FEATURES

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

Scalable—when power or runtime requirements change M90-80 modularity makes it easy to add modules and increase capacity

Top feed cable entry—provides easy installation in data center environments

Maintenance bypass—front mounted MBP switch transfers critical loads from UPS power to utility power, enabling maintenance

Large Touchscreen LCD display—10" display provides graphic display including status and alarms

Dual or single utility input—provides maximum installation flexibility

Power module ratings—15kVA or 20kVA modules available

MODEL SELECTION GUIDE

MODEL NUMBER		M9080-20k	M9080-40k	M9080-60k	M9080-80k
CAPACITY	Power rating	20kVA/18kW	40kVA/36kW	60kVA/54kW	80kVA/72kW
	Enclosure capacity: power modules	Up to 80KVA (4 x 20KVA) or up to 60kVA (4 x 15KVA)			
	Enclosure capacity: battery modules	4, 8, 12, or 16 internal battery modules			
INPUT	Voltage / frequency nominal	208/120V, 50/60Hz auto-sensing			
	Voltage / frequency range	121–253VAC* (L-L), 40–70Hz			
OUTPUT	Voltage	208/120V			
	Frequency	50/60Hz ± 0.5Hz			
	THD (full load)	< 2%			
	Efficiency	Up to 94% 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	32A
DIMENSIONS & WEIGHT	Enclosure	23.6"W x 43.3"D x 79.1"H / 657 lbs			
	Power module	19.5"W x 29.5"D x 5.5"H / 74 lbs			
	Battery module	4.3"W x 28.5"D x 6.5"H / 70 lbs			
ENVIRONMENT	Temperature	0–40°C (32–104°F)**			
	Altitude	5,200 ft above sea level**			
	Audible noise (typical)	< 69dBA at 1m			
APPROVALS	UL-1778 (TUV), cUL (TUV), FCC A, RoHS, TAA				
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, unloading ramp, ViewPower Software				
AVAILABLE OPTIONS	External maintenance bypass, 480V input transformer, output distribution, 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.

INTERNAL BATTERY RUNTIMES

System Load (kVA)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
4 battery modules	42	18	11	7	-	-	-	-	-	-	-	-	-	-	-	-
8 battery modules	97	42	26	18	14	11	9	7	6	-	-	-	-	-	-	-
12 battery modules	138	68	42	30	23	18	15	13	11	9	8	7	-	4	-	-
16 battery modules	190	97	59	42	32	26	21	18	16	14	12	11	10	7	6	6

Runtimes are shown in minutes and will vary based on battery age and site conditions. For extended runtimes, reference www.xpcc.com/selector or contact sales@xpcc.com.


Maintenance Bypass
front mounted MBP switch transfers critical loads from UPS power to utility power, enabling maintenance

20kVA or 15kVA Power Module
up to 4 modules for up to 80kVA capacity or 60kVA N+1


Top Feed Cable Entry
provides easy installation access

STS Module
static switch with redundant power supplies

Battery Module
up to 16 hot swappable battery modules



M90-80 front view (door removed)



M90-80 front view (door closed)

X-TREME
Power Conversion®

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