

XTREME POWER CONVERSION M90-140

Modular Online UPS // 208/120VAC Three Phase



Mission critical availability with scalable, modular, high density M90-140 for 15kVA to 140kVA application

The M90-140 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.

M90-140 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 modular configurations up to 80kVA also reference www.xpcc.com/m90-80

PRODUCT SNAPSHOT

- › Capacities: 15kVA, 20kVA, 30kVA, 40kVA, 45kVA, 60kVA, 75kVA, 80kVA, 90kVA, 100kVA, 105kVA, 120kVA, 140kVA
- › 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 and runtime requirements change M90-140 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		M90140-20k	M90140-40k	M90140-60k	M90140-80k	M90140-100k	M90140-120k	M90140-140k
CAPACITY	Power rating	20kVA/18kW	40kVA/36kW	60kVA/54kW	80kVA/72kW	100kVA/90kW	120kVA/108kW	140kVA/126kW
	Power modules	Up to 140KVA N+1 (8 x 20KVA) or up to 105kVA N+1 (8 x 15KVA)						
INPUT	Voltage nominal	208/120V						
	Frequency nominal	50/60Hz auto-sensing						
	Voltage range	121–253VAC* (L-L)						
	Frequency range	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						
UPS PHYSICAL	Dimensions & weight	23.6"W x 43.3"D x 79.1"H / 657 lbs + 74 lbs per module						
ENVIRONMENT	Temperature	0–40°C (32–104°F)**						
	Altitude	5,200 ft above sea level**						
	Audible noise (typical)	< 69dBA at 1m						
BATTERY ENCLOSURE	Charge current (max)	8A	16A	24A	32A	40A	48A	56A
	Dimensions & weight	23.6"W x 43.3"D x 79.1"H / 735 lbs + 85 lbs per module						
	Hot Swappable battery modules (4 per string)	Up to 8 strings with individual breakers						
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							

*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)	10	20	30	40	50	60	70	80	90	100	110	120	130	140
4 battery modules	19	7	-	-	-	-	-	-	-	-	-	-	-	-
8 battery modules	46	19	11	7	-	-	-	-	-	-	-	-	-	-
12 battery modules	76	32	19	13	9	7	4.9	-	-	-	-	-	-	-
16 battery modules	111	46	27	19	15	11	9	7	5.3	-	-	-	-	-
20 battery modules	141	61	36	25	19	15	13	10	8	7	5.5	4.6	-	-
24 battery modules	174	76	46	32	24	19	16	13	11	9	8	7	5.8	4.9
28 battery modules	209	93	56	38	29	23	19	16	14	12	10	9	8	7
32 battery modules	244	111	66	46	34	27	22	19	16	15	13	11	10	9

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

Up to 8 Battery Strings
Strings each protected with 125A breaker

Battery Module
hot swappable module



Top Feed Cable Entry
provides easy installation access

10" Touch LCD Display

STS Module
static switch with redundant power supplies

20kVA or 15kVA Power Module
up to 4 modules for up to 140kVA capacity or 120kVA N+1

M90-140 front view

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