

# XTREME POWER CONVERSION M90L

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

For more information, visit  
[www.republicpowersystems.com/m90l](http://www.republicpowersystems.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.

### 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 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

# MODEL SELECTION GUIDE

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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	208/120V, 50/60Hz auto-sensing					
	Voltage/frequency range	121VAC to 253VAC*					
OUTPUT	Voltage	208/120V					
	Frequency	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 39.4"D x 30"H / 227 lbs					
	Power module	19.0"W x 28.0"D x 5.1"H / 74 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 (UPS)		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					
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

## BATTERY PACK DATA & RUNTIMES

Battery Cabinet Model	Battery Model	Strings	15kVA /13.5kW	20kVA /18kW	30kVA /27kW	40kVA /36kW	45kVA /40.5kW	60kVA /54kW	Dimensions (W x D x H)	Weight
2TC1S280-D2401BXXX	HRL12280WFR	1	51	35	19	12	9.6	6.2	29.5 x 31.6 x 59.0 in	1,600 lbs
2TC1S330-D2401BXXX	HRL12330WFR	1	66	42	26	16	14	8.0	29.5 x 31.6 x 59.0 in	1,770 lbs
2TC1S390-D2401BXXX	HRL12390WFR	1	80	50	32	19	18	10	29.5 x 31.6 x 59.0 in	1,920 lbs
2TC1S540-D2401BXXX	HRL12540WFR	1	-	78	46	31	26	17	29.5 x 31.6 x 59.0 in	2,480 lbs
2TC1S620-D2401BXXX	XHRL12620WFR	1	-	82	53	36	31	20	29.5 x 31.6 x 59.0 in	2,480 lbs
55C2S330-D2401BXXX	HRL12330WFR	2	-	89	66	42	39	24	40.0 x 29.5 x 76.7 in	3,300 lbs
55C2S390-D2401BXXX	HRL12390WFR	2	-	106	80	50	46	29	40.0 x 29.5 x 76.7 in	3,600 lbs
55C2S540-D2401BXXX	HRL12540WFR	2	-	175	-	78	69	47	40.0 x 29.5 x 76.7 in	4,720 lbs
55C2S620-D2401BXXX	XHRL12620WFR	2	-	177	-	82	77	52	40.0 x 29.5 x 76.7 in	4,720 lbs

For extended runtimes and detailed requirements, call (800) 582-4524. Runtimes are shown in minutes and will vary based on battery age and site conditions.



**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 Extended Battery Pack

**X-TREME**  
 Power Conversion®

Protect your business.

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