

EXTRA LARGE INVERTER SYSTEM | 750/1150W | EMERGENCY POWER SYSTEM

Code: EMIN-XL



FEATURES

- UL924 Listed and Meets NFPA 101 Life Safety Code
- Meet NEC, OSHA, Local and State Codes
- Certified to CEC under Title 20 Regulations
- 120/277VAC 60Hz
- Inverter System for 750W or 1150W
- Heavy Duty Steel Cabinet
- Surface Mount

WARRANTY INFORMATION

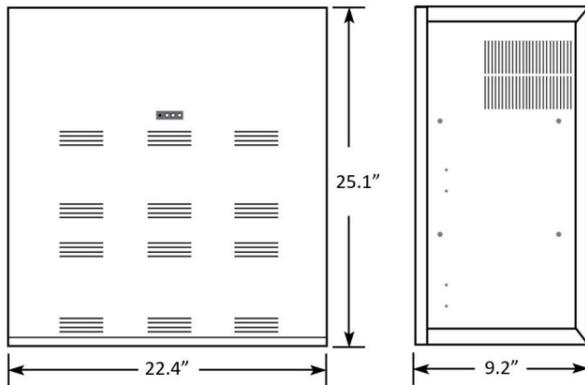
Any component that fails due to manufacturer's defect is guaranteed for 1 year. The warranty only covers products installed and maintained in accordance with the instructions provided by their respective manufacturer and no warranty is made with respect to any of our products that are otherwise installed or maintained. For full warranty details, visit our Warranty Section.

Compatible Battery: 12V18Ah SLA

ORDERING INFORMATION

Series	Housing Color	Capacity	Mounting Options	Testing Mode	Output	Output Breakers
EMIN-XL	W (White)	750W	SM (Surface Mount)	MT (Manual Testing)	None	None
		1150W		ST (Self-Testing)	Adjustable Output / Dimmer Bypass	1 Output Breaker
						2 Output Breakers

DIMENSIONS



ELECTRICAL INFORMATION

Series	Input/Output Voltage	Capacity - 90 Mins (W/VA)	System Efficiency	Battery Voltage (VDC)	Battery Current (Ah)	AC Input	Thermal Output
EMIN-XL-750	120/277VAC	750/750	98%	48	18.2	7.53 (120VAC) / 3.26 (277VAC)	14 (On-Line) / 416 (Emergency)
EMIN-XL-1150		1150/1150		72		10.2 (120VAC) / 4.42 (277VAC)	22 (On-Line) / 535 (Emergency)

CONSTRUCTION

The EMIN-XL inverter is housed in a heavy-duty steel cabinet finished with a white baked-on powder coat that provides excellent scratch and corrosion resistance.

ELECTRICAL COMPONENTS

The EMIN-XL inverter features dual 120 or 277 VAC $\pm 10\%$ input, user-selectable via provided jumper wires, operating at 60 Hz with $\pm 2\%$ frequency tolerance, and includes UL 924 compliant surge protection. Input protection is supplied by the building service panel rated at 20 amps maximum. The unit delivers 120 or 277 VAC, 60 Hz output with a digitally controlled true sinusoidal waveform, achieving up to 98% efficiency at full rated load. Performance characteristics include $\pm 5\%$ voltage regulation during battery discharge (0–100% linear load), ± 0.3 Hz frequency regulation during emergency operation, and less than 3% total harmonic distortion (THD). The inverter provides a transfer time of less than one second, supports a 0.88 lead to 0.88 lag power factor range, allows 0% minimum loading, and incorporates integral circuit breaker and overload shutdown protection for reliable and safe operation.

EMERGENCY OPERATION

Upon loss of normal utility power, the EMIN-XL inverter automatically activates via a solid-state switching circuit to supply a minimum of 90 minutes of emergency power to the connected load while maintaining 100% of the lamp's rated lumen output for the full duration. A solid-state low-voltage disconnect protects the batteries from damage caused by deep discharge. Once normal utility power is restored, the unit automatically transfers the load back to normal operation and engages a fully automatic, temperature-compensated, dual-mode charger to recharge the batteries to full capacity in accordance with UL 924 requirements. An integrated brownout sensing circuit ensures proper operation during low-line voltage conditions.

BATTERY - BATTERY BACKUP

The EMIN-XL inverter uses a sealed lead calcium (SLA) battery system with a 10-year design life, utilizing 12V, 18Ah SLA batteries. The 750W system is supplied with five (5) batteries for a nominal 48VDC configuration, while the 1150W system includes eight (8) batteries for a 72VDC configuration. Standard emergency runtime is 90 minutes, based on battery performance at 77°F (25°C), with extended runtimes available upon request. Battery protection features include a low-voltage battery disconnect to prevent deep discharge during prolonged outages, as well as reverse polarity, DC overload, and short-circuit protection provided by a dedicated DC input breaker and fuse.

OPERATIONAL TEMPERATURE

Temperature Ratings

Standard Option

68°F to 86°F

Note* Operation outside the recommended temperature range may impact overall system performance, battery capacity, and battery service life.

INSTALLATION

The EMIN-XL inverter is designed for surface wall mounting and features integral keyhole slots located on the back of the enclosure, allowing for fast, secure, and straightforward installation to standard wall surfaces.

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