



## Mini Inverter Series

### Interruptible Unit Equipment



The **Mini Inverter** is a UL Listed stand-alone simulated sine wave output inverter designed to provide power to designated emergency lighting fixtures. In a power loss situation, it will supply power from the onboard battery supply.

The **Mini Inverter** works in conjunction with incandescent, LED, and fluorescent fixture types and will automatically run switched, normally-on, or normally-off designated emergency fixtures.

The **Mini Inverter** is ideal for applications requiring an emergency source for lighting arrangements that utilize multiple lamp and fixture types and is available in surface mount and comes with a one year warranty and nine-year pro-rata battery warranty.

### Standard Features

- Lamps operated: Incandescent LED, fluorescent lamps and ballast combinations, including dimming ballasts
- Components: High-efficiency pure sine wave inverter, temperature-compensated charger 12V oversized Valve Regulated Acid (VRLA) battery
- Construction: 14-gauge steel housing
- Emergency lighting supplied from one convenient source
- Input/Output voltage 120V 60 Hz or 277V 60 Hz
- Replacable output fuse protection
- Line voltage allows for remote mounting of emergency fixtures at distances up to 1000 feet
- Low Voltage Battery Disconnect
- Unit comes standard with electronic lockout and brownout circuits
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements.
- Cabinet in factory white semi-gloss powder-coat paint finish
- May accept load to it's full capacity when load feature power factor of 0.9 or more
- Optional auto-diagnostic available, including Nexus system interface with an improved minimum lost load detection of 10%

### Suggested Specification

Emergency lighting shall be provided by inverter unit equipment designed to operate designated incandescent, fluorescent and LED fixtures on emergency power at their full nominal lumen rating during the full 90 minutes emergency discharge cycle. System output will be rated at \_\_\_\_\_ watts for 90 minutes and provide fused output connections to the load. The system's voltage rating shall be \_\_\_\_\_ VAC input/output. The inverter unit shall allow for connected emergency fixture(s) to be normally on, normally off, switched or dimmed without affecting lamp operation during a power failure. Upon utility power loss, the inverter unit shall deliver 100% of its rated output to the emergency fixtures regardless of the local switch or dimmer position, and will provide power to emergency fixtures at distances of up to 1000 feet. The housing shall be manufactured using 14-gauge steel with a white baked-on powder coat paint finish. The unit's electronics shall include a self-contained inverter section with a fully automatic, thermal-compensating variable-rate battery charger, AC lockout feature, low voltage battery disconnect, DC overload, short circuit and brownout protection as standard. The unit shall utilize a sealed lead calcium battery with a 10-year design life. The inverter system shall be UL 924 Listed and labeled. The unit shall be covered under a 3-year warranty on the electronics and battery and a 7-year pro-rata warranty on the battery.

### Specifications

<b>TRANSFER TIME:</b> less than 1 second
<b>VOLTAGE REGULATION ON EMERGENCY:</b> +/- 3%
<b>FREQUENCY REGULATION ON EMERGENCY:</b> 60 Hz +/- 1%
<b>LOAD POWER FACTOR RANGE:</b> .9 leading to .9 lagging
<b>OPERATING TEMPERATURE:</b> 20° TO 30°C (68° TO 86°F)

### Warranty

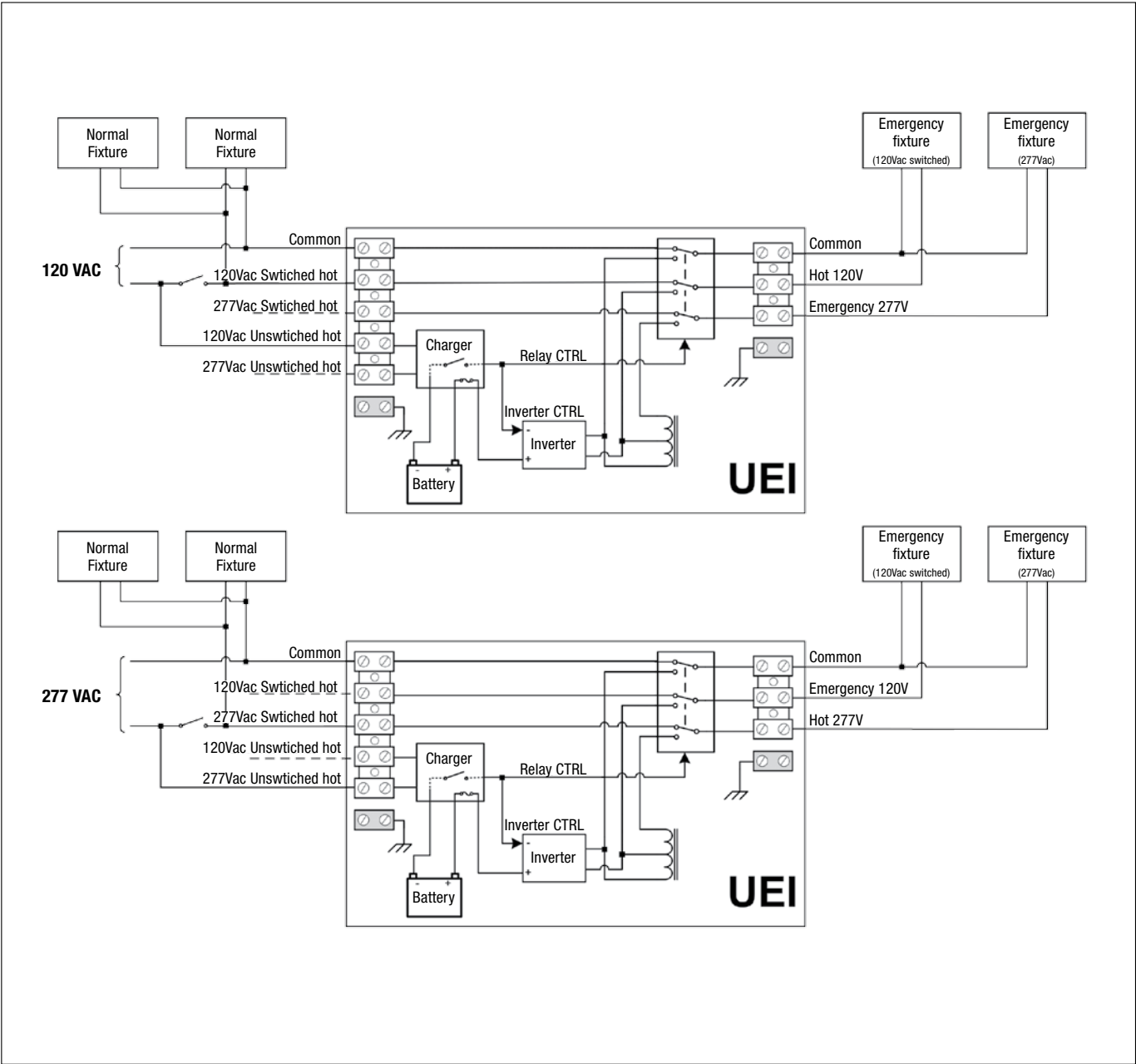
All **Emergi-Lite®** inverter products receive 100% quality inspection before shipment to insure proper and satisfactory operation. When operated under normal conditions, **Emergi-Lite®** inverter products will provide years of dependable service. This unit is backed by a 3/7 year warranty. The unit is covered by a complete 3-year warranty against defects in material or workmanship, and a 7-year prorata battery warranty.

The inverter unit shall be Emergi-Lite® model: \_\_\_\_\_

### Electrical Characteristics & Dimensions

POWER RATING	SINE WAVE	INSTALLATION	CABINET DIMENSIONS			NO. OF BATTERY	WEIGHT	WEIGHT W/O BATTERY
			W"	H"	D"		120V & 277V	120V & 277V
125W	Modified	T-Bar	24"	6.5"	8"	1	43 lbs	20 lbs
125W	Modified	Wall	16.5"	12.2"	7.3"	1	41 lbs	18.5 lbs
250W	Pure	Wall	27"	12.2"	7.3"	2	76 lbs	30 lbs
400W	Pure	Wall	24"	10.5"	20"	2	128 lbs	50 lbs
720W	Pure	Wall	24"	14.5"	20"	2	185 lbs	72 lbs

# Wiring Diagram



## Ordering Information

SERIES	CAPACITY	VOLTAGES IN/OUT	OPTIONS
EMIU	-125= 125W -250= 250W -400= 400W -720= 720W	-MT= (120/120 or 277/277)*  *Minimum load required: 10% of unit capacity	-NEX= Nexus® wired -NEXRF= Nexus® wireless -D3= Time Delay (15 minutes) -T= Recessed T-Bar mounting (125W unit only) -ADNA= Advanced-Diagnostic, non-audible* -ML= Mix normally on and off loads -SAC= Service Alarm Contact**  *Minimum load required: 10% of unit capacity ** Not available with 720 capacity

EXAMPLE: EMIU-720-1