

Mini Inverter Series

Interruptible unit equipment standard with non-audible improved self-diagnostics circuitry – 125W



Construction

- 14-gauge steel
- White semi-gloss powered-coat paint finish

Mounting

- Surface mount
- Optional recessed T-bar (125W unit only)

Lamp types operated

- LED
- Incandescent
- Fluorescent
- Operates switched, normally-on or normally-off fixture types, incandescent
- Incandescent, LED, fluorescent lamps and ballast combinations, including triac dimmable ballasts (consult factory if DALI dimming)¹

Load capacity

- 125W
- Line voltage allows for remote mounting of the emergency fixtures at distances up to 1000 feet

Electronics

- Temperature compensated charger
- Replaceable output fuse protection
- Low battery voltage disconnect
- Unit comes standard with electronic lockout and brownout circuits

Controls

- Standard with a non-audible self diagnostic/charger is fully self-contained, fully automatic microcontrollerbased system
- Optional audible auto diagnostic available
- Standard lighting control override for 0-10V dimming systems

Nexus® Option

- Units equipped with Nexus® self-testing monitoring system circuitry shall self-test, in accordance with NFPA101, Life Safety Code minimum 30 seconds every 30 days, and 90 minutes annually as well as keep a history of all testing logs, plus feature a real-time diagnoses, as well as, be able to locate exact fixture location while notifying service personnel to the status of the fixture via email notification. Nexus® system interface with an improved minimum load lost detection of 10%

Sealed maintenance-free battery

- 12V oversized valve regulated lead-calcium (VRLA) battery
- Provides 90 minutes of emergency operation

Power requirements

- Choice of voltage 120V in/120V out or 277V in/277V out operation, 60Hz

Approvals

- UL 924 Standard
- Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements

Warranty (subject to proper installation and maintenance)

- Battery has a 3-year full, plus 7-year pro-rata warranty
- Unit has a three-year warranty

Detailed warranty terms located on [page 197](#) or online at: www.lightalarms.com



¹ When using HI-Bay fixtures or screw-in type LED lamps, consult the factory.

Load capacity

Mini-Inverter	Voltage	Mini-Inverter @ 80% capacity (W) in emergency mode
LMIU-125	120	100
Mini-Inverter	Voltage	Mini-Inverter @ 70% capacity (W) in emergency mode
LMIU-125	277	87

Example

Mini-Inverter load	Fixture wattage (W)	Fixture power factor	Equipment safety factor	Voltage	Fixture quantity
LMIU-125	29	0.96	20%	120	3

Replacement battery

Series	Part number
LMIU-125	860.0024-L

Specifications

Transfer time	Voltage regulation on emergency	Frequency regulation on emergency	Load power factor range	Operating temperature
Less than 1 second	+/- 5%	60 Hz +/- 1%	125W model: 0.8 leading to 0.8 lagging	68°F to 86°F (20° to 30°C)

Electrical characteristics and dimensions

Power rating	Sine wave	Installation	Cabinet dimensions			Number of batteries	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	23"	12.2"	7.3"	1	41 lbs	18.5 lbs

Note: For wiring diagram, please refer to instruction sheets.

Power consumption and unit rating - Non-CEC models

Model number	AC specs	Emergency power available for load			
		90 minutes	2H	3H	4H
LMIU-125	120 / 277VAC 1.15 / 0.70 Amps	125W	83W	62W	47W

Power consumption and unit rating - CEC models

Model number	AC specs	AC power stand by	Emergency power available for load			
			90 minutes	2H	3H	4H
LMIU-125	120 / 277VAC 1.15 / 0.50 Amps	1.44W	125W	83W	62W	47W

Ordering format

Series	Capacity	Voltage in/out	Diagnostic feature	Options	Approval
LMIU	-125= 125W	Blank= 120/120VAC or 277/277VAC	Blank= Includes improved self-diagnostics (non-audible) ¹ -ID= Improved self-diagnostics (audible) ¹ -NID= No self-diagnostics ³ -NEX= Nexus® wired -NEXRF= Nexus® wireless	-D3= Time delay (15 minutes) -SAC= Service alarm contact ² -T= Recessed T-Bar mounting (125W unit only)	-CEC= CEC Title 20 for California
Example: LMIU-125					

¹ Minimum load required: 10% of unit capacity

² Service alarm contact (SAC) shall provide a 24V signal, the charger board will indicate a fault by choosing a contact.

³ When using a transfer device (automatic load control relay) you must choose the NID option