MINI INVERTER SERIES

Interruptible Unit Equipment Standard with Non-Audible Improved Self-Diagnostics Circuitry

FEATURES

Housing
- 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
- Operating switched, normally-on or normally-off fixture types
- Incandescent, LED, fluorescent lamps and ballast combinations, including triac dimmable ballasts (consult factory if 0-10V or DALI dimming)

Load Capacity
- 125W, 250W, 400W or 720W
- Line voltage allows for remote mounting of the emergency fixtures at distances up to 1000 feet
- May accept load to it's full capacity when load feature power factor of 0.9 for 250W model and 0.8 for 125, 400 and 720W model

Electronics
- High-efficiency pure sine wave inverter at 250W capacity or higher
- 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 microcontroller- based 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 selftest, in accordance with NFPA101, Life Safety Code minimum 30 seconds every 30 days, 30 minutes every six months 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

REPLACEMENT BATTERY
LMIU-125: 860.0024-L
LMIU-250: 2X 860.0024-L
LMIU-400: 2X 860.0043-L
LMIU-720: 2X 860.0096-L

SPECIFICATIONS

Supply and install **Lightalarms® Mini Inverter** Series.

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 used 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 triac dimmable ballasts 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 as standard, non-audible self-diagnostics, 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 full warranty on the electronics, against defects in material or workmanship. The battery includes a 3 year full, plus a 7 year pro-rata warranty.

Unit shall be **Lightalarms®** catalog number _____ .

SPECIFICATIONS
TRANSFER TIME Less than 1 second
VOLTAGE REGULATION ON EMERGENCY: +/- 3%
FREQUENCY REGULATION ON EMERGENCY: 60 Hz +/- 1%
LOAD POWER FACTOR RANGE: • 250W model: .9 leading to .9 lagging • 125, 400 & 720W models: 8 leading to .8 lagging
OPERATING TEMPERATURE: 68° to 86°F (20° to 30°C)

Approvals
- UL924 Standard
- Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements

Warranty (subject to proper installation and maintenance)
- Unit has a 3 year full warranty (excluding lamps and fuses)
- Battery has a 3 year full, plus 7 year pro-rata warranty

All **Lightalarms®** inverter products receive 100% quality inspection before shipment to insure proper and satisfactory operation.

TYPE _____

CATALOG # _____

NOTES _____

nexus

Interruptible Unit Equipment 125W, 250W, 400W or 720W Standard with Non-Audible Improved Self-Diagnostics Circuitry & Lighting Control Override

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

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

POWER CONSUMPTION AND UNIT RATING

MODEL NUMBER	AC SPECS		EMERGENCY POWER AVAILABLE FOR LOAD			
			90MIN	2H	3H	4H
LMIU-125	120 / 277VAC	1.15 / 0.50 Amps	125W	83W	62W	47W
LMIU-250	120 / 277VAC	2.28 / 0.99 Amps	250W	167W	125W	94W
LMIU-400	120 / 277VAC	3.73 / 1.62 Amps	400W	300W	200W	150W
LMIU-720	120 / 277VAC	6.90 / 2.99 Amps	720W	480W	360W	270W

ORDERING INFORMATION

SERIES	CAPACITY	VOLTAGE IN/OUT	DIAGNOSTIC FEATURE	OPTIONS
LMIU	**-125**= 125W **-250**= 250W **-400**= 400W **-720**= 720W	**BLANK**= 120/120VAC or 277/277VAC	**Blank**= Includes Improved Self-Diagnostics (non-audible)[1] **-ID**= Improved Self-Diagnostics (audible)[1] **-NEX**= Nexus® wired **-NEXRF**= Nexus® wireless	**-D1**= Time Delay (5 minutes) **-D2**= Time Delay (10 minutes) **-D3**= Time Delay (15 minutes) **-SAC**= Service alarm contact[1] **-T**= Recessed T-Bar mounting (125W unit only)

[1] Minimum load required: 10% of unit capacity

[1] Service alarm contact (SAC) shall provide a 24V signal, the charger board will indicate a fault by choosing a contact. Not available with 720 capacity

EXAMPLE: LMIU-720