

## 1000W Capacity Mini Inverter Series

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



### Housing

- 14-Gauge Steel
- White semi-gloss powdered-coat paint finish

### Mounting

- Surface mount

### Compatible loads

- LED
- Incandescent
- Fluorescent
- Operating switched, normally-on or normally-off fixture types
- Triac dimming
- 0-10V Dimming
- DALI dimming - consult factory

### Load capacity

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

### Electronics

- High-efficiency pure sine wave inverter
- 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 improved self diagnostic & self-testing** microcontroller- based system
- Optional **audible Improved Diagnostic** available
- Optional **Non-Improved Diagnostics** available
- **Non-Improved Diagnostics** option for applications with emergency power controls
- Standard lighting control override for 0-10V dimming systems
- Optional 4 output circuits allow for multiple zone application
- Optional load shedding to dim 0-10V light fixtures connected to an emergency inverter system

### Load Shedding

- During a power outage the emergency fixture is dimmed at field selectable level of 25%, 40% or 45% brightness output. Reducing wattage draw from the fixture will allow for more fixture to be connected to the Mini Inverter.
- Lightalarms 1000W Mini Inverter with 4C-24V option must be used in conjunction with RTS load shedding control device (Ordered separately)
- The LMIU-1000-4C-24V when in normal mode can accept a maximum of 1000watts per circuit.
- Maximum 20 Emergency fixtures can be daisy chained to each RTS
- One RTS required for each circuit (Ordered separately)

For use of more than 4 RTS control devices contact factory

### Sealed maintenance-free battery

- 12V valve regulated Lead-Calcium (VRLA) batteries
- Provides minimum 90 minutes of emergency operation power requirements
- Choice of Voltage 120V input/120V output or 277V input/277V output 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)

Unit has a three-year limited warranty

Detailed warranty terms located on **page 182** or online at: [www.lightalarms.com](http://www.lightalarms.com)



**Replacement battery**

Series	Part number
LMIU-1000	4 X 860.0043

**Specifications**

Transfer time	Voltage regulation on emergency	Frequency regulation on emergency	Load power factor range	Operating temperature
Less than 1 second	+/- 3%	60 Hz +/- 1%	0.8 at 120V 1 at 277V	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
1000W	Pure	Floor/ Wall	24"	40.75"	10.5"	4	266 lbs	114 lbs
1000W-4C	Pure	Floor/ Wall	24"	40.75"	14.5"	4	320 lbs	198 lbs

Note: For wiring diagram, please refer to the specification sheets

**Power consumption and unit rating**

Model number	Ac specs	Emergency power available for load			
		90 minutes	2H	3H	4H
LMIU-1000	120 / 277VAC 12.8 / 5.3 Amps	1000W	807W	604W	489W

**Ordering format**

Series	Capacity	Voltage in/out	Diagnostic feature	Options
LMIU	-1000=1000W	Blank= 120/120VAC or 277/277VAC	Blank= Includes improved self-diagnostics (non-audible) <sup>1</sup> -ID= Improved self-diagnostics (audible) <sup>1</sup> -NID= No self-test/Self-diagnostic -NEX= Nexus® wired -NEXRF= Nexus® wireless	-D3= Time delay (15 minutes) -SAC= Service alarm contact <sup>2</sup> -4C= 4 output circuits -4C-24V= 4 output circuits with 24VDC output <sup>3</sup>

**Example: LMIU-1000-4C**

<sup>1</sup> Minimum load required: 10% of unit capacity

<sup>2</sup> Service alarm contact (SAC) shall be provided a 24V signal, the charger board will indicate a fault by closing a contact.

<sup>3</sup> Can only be used with RTS-0-10V-24-L for load shedding applications.

**RTS Series**

0-10V dimming load shedding control



**Ordering information**

Series
RTS-0-10V-24V-L= 24V 0-10V dimming load shedding control <sup>1</sup>

**Example: RTS-0-10V-24V-L**

<sup>1</sup> Can only be used with LMIU-1000-4C-24V

