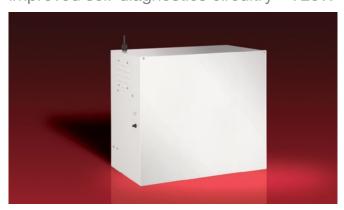


Mini Inverter Series

Interruptible unit equipment standard with non-audible improved self-diagnostics circuitry - 720W



Construction

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

Mounting

Surface mount

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

- 720W
- 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 charger 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

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

Load shedding for 0-10V fixtures

- During a power outage the emergency fixtures are dimmed to field selectable levels of 25%, 50% or 75% brightness output. Reducing wattage draw from the fixture will allow for more fixtures to be connected to the Mini Inverter.
- Replaceable Inverter output fuse protection (two replacement fuses included, when load shedding option is ordered only)
- Maximum 100 emergency fixtures can be daisy chained per circuit

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











Load shedding

Mini-Inverter load	Voltage	Load shedding	Mini-Inverter @ 80% capacity (W) in emergency mode	Maximum capacity (W) per circuit in stand-by mode
LMIU-720-4-LD	120	25%	2304	576
LMIU-720-4-LD	120	50%	1152	576
LMIU-720-4-LD	120	75%	768	576
LMIU-720-4-LD	120	100%	576	576
			Mini-Inverter @ 70% capacity (W)	Maximum conscitu (M) non circuit
Mini-Inverter load	Voltage	Load shedding	in emergency mode	Maximum capacity (W) per circuit in stand-by mode
Mini-Inverter load LMIU-720-4-LD	Voltage 277	Load shedding 25%		
		•	in emergency mode	in stand-by mode
LMIU-720-4-LD	277	25%	in emergency mode 2016	in stand-by mode 504

Example

Mini-Inverter load	Load shedding	Fixture wattage (W)	Fixture power factor	Equipment safety factor	Voltage	Fixture quantity
LMIU-720-4-LD	25%	57	0.96	20%	120	40
LMIU-720-4-LD	50%	57	0.96	20%	120	20
LMIU-720-4-LD	75%	57	0.96	20%	120	13
LMIU-720-4-LD	100%	57	0.96	20%	120	10

Replacement battery

Series	Part number
LMIU-720	2X 860.0096-L

Specifications

Transfer time	Voltage regulation on emergency	Frequency regulation on emergency	120V	277V	Operating temperature
Less than 1 second	+/- 5%	60 Hz +/- 1%	720W model .8 leading to .8 lagging	720W model .9 leading to .9 lagging	68°F to 86°F (20° to 30°C)

Electrical characteristics and dimensions

			Cabinet dimensions				Weight	Weight w/o battery
Power rating	Sine wave	Installation	W"	Н"	D"	Number of batteries	120V & 277V	120V & 277V
720W	Pure	Wall	24"	20"	14.5"	2	220 lbs	95 lbs

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

Power consumption and unit rating

					Emergency powe	r available for load
Model number		AC specs	90 minutes	2H	3Н	4H
LMIU-720	120 / 277VAC	9.60 / 4.00 Amps	720W	480W	360W	270W

Ordering format

Series	Capacity	Voltage in/out	Diagnostic feature	Options
LMIU	-720 = 720W	Blank = 120/120VAC or 277/277VAC	Blank= Includes improved self-diagnostics (non-audible) ¹ -ID= Improved self-diagnostics (audible) ¹	-D3= Time delay (15 minutes) -SAC= Service alarm contact ² -T= Recessed T-Bar mounting (125W unit only)
			-NID= No self-diagnostics⁴ -NEX= Nexus® wired -NEXRF= Nexus® wireless	 -4= 4 output circuits -4-LD= 4 output circuits with load shedding for 0-10V models
Exam	ple: LMIU-72	20	-NEXP= Nexus® Pro IoT ³	

¹Minimum 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 Available on LMIU-720-4 and LMIU-720-4-LD
4 When using a transfer device (automatic load control relay) you must choose the NID option