# **Mini Inverter Series**

Interruptible unit equipment 250W



## Housing

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

## Mounting

Surface mount

## 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 DALI dimming)<sup>1</sup>
- Consult your sales representative for high bay/after market LED lamp applications

## Load capacity

- 250W
- 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

<sup>1</sup>When using high bay fixtures or screw in type lamps, please consult the factory.

# 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

## Load shedding for 0-10V fixtures

- During a power outage the emergency fixture is dimmed to 25% or 45% factory set brightness output. Reducing wattage draw from the fixture will allow for more fixture to be connected to the mini inverter.
- Maximum 20 Emergency fixtures can be daisy chained per EMIU-250
- In standby mode, the maximum normally-on load that can be connected to EMIU-250-LD is 960 watts (see load shedding table on the next page)

# **Nexus®** Option

 Units equipped with Nexus<sup>®</sup> self-testing monitoring system circuitry shall self-test, 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<sup>®</sup> 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

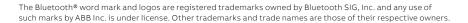
- UL 924 Standard
- Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements
- BC California Energy Commission Title 20

#### Warranty (subject to proper installation and maintenance)

nexus

- Battery has a 3 year full, plus 7 year pro-rata warranty
- Unit has a three year warranty (excluding lamps and fuses) Detailed warranty terms located at: www.emergi-lite.com/usa/files/EL\_Warranty.pdf

All Emergi-Lite® inverter products receive 100% quality inspection before shipment to insure proper and satisfactory operation.



Nexus<sup>®</sup>Pro

Load	capa	city

Mini inverter	Voltage	Mini inverter@ 80% capacity (W) in emergency mode
EMIU-250	120	200
Mini inverter	Voltage	Mini inverter @ 70% capacity (W) in emergency mode
EMIU-250	277	175

Mini inverter load	Fixture wattage (W)	Fixture power factor	Equipment safety factor	Voltage	Fixture quantity
EMIU-250	29	0.96	20%	120	6

Mini inverter load	Voltage	Load shedding	Mini inverter @ 80% capacity (W) in emergency mode
Mini inverter ioau	voitage	Load shedding	Mini inverter @ 80% capacity (w) in emergency mode
EMIU-250-LDC	120	25%	800
EMIU-250-LDC	120	45%	363
Mini inverter load	Voltage	Load shedding	Mini inverter @ 70% capacity (W) in emergency mode
EMIU-250-LDC	277	25%	700
EMIU-250-LDC	277	45%	318

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Exam	pl	e

Mini inverter load	Load shedding	Fixture wattage (W)	Fixture power factor	Equipment safety factor	Voltage	Fixture quantity
EMIU-250-LDC	25%	29	0.96	20%	120	14
EMIU-250-LDC	45%	29	0.96	20%	120	6

#### Specifi

	Replacement battery	Specifications				
Suffix	Description	Operating temperature	Load power	Frequency reglation on	Voltage regulation on	Transfer time
501112	Description	temperature	factor range	emergency	emergency	ume
2X 860.0024-E	EMIU-250	68° to 86°F	250W model:	60 Hz +/- 1%	+/-5%	Less than
2X 800.0024-E	2010-200	(20° to 30°C)	.9 leading to .9 lagging	00 112 7/- 1%	+/ -5%	1 second

#### Electrical characteristics and dimensions

			Cabinet dimensions				Total weight	Weight w/o battery
Power rating	Sine wave	Installation	Width	Height	Depth	No. of batteries	120V & 277V	120V & 277V
250W	Pure	Wall	27"	12.2"	7.3"	2	100 lbs	45 lbs

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

# Power consumption and unit rating - non-CEC models

				Emergency power available for loa			
Model number	AC specs	90 Min	2H	3H	4H		
EMIU-250	2.75 / 1.20 Amps	250W	167W	125W	94W		

#### Power consumption and unit rating - CEC models

Model					Emergend	y power availab	le for load
number		AC specs	AC power standby	90 Min	2H	ЗН	4H
EMIU-250	120/277VAC	2.28 /0.99 Amps	2.26W	250W	167W	125W	94W

How to order

Series	Capacity	Voltage	Diagnostic feature	Options	Approval
EMIU	<b>-250</b> = 250W	Blank= 120/120VAC or 277/277VAC	-Blank= Advanced Diagnostic, non-audible <sup>1</sup>	-D3= Time delay (15 minutes)	-CEC= CEC
			-AD= Advanced Diagnostic, audible <sup>1</sup>	-LDC25 = Load shedding to	Title 20 for
			-NAD= No Advanced Diagnostics <sup>2</sup>	25% brightness	California
			-NEXP= Nexus®Pro IoT <sup>1</sup>	-LDC45 = Load shedding to	
-			-NEXRF= Nexus <sup>®</sup> wireless <sup>1</sup>	45% brightness	
Examp	ole: EMIU-250			-SAC= Service alarm contact <sup>3</sup>	

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

<sup>2</sup>When using a transfer device (automatic load control relay) you must choose the NAD option

<sup>3</sup>Service alarm contact (SAC) shall provide a 24V signal, the charger board will indicate a fault by choosing a contact.