1000W High Capacity Mini Inverter Series

Interruptible unit equipment 1000W



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 factory1

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

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

Controls

- Standard with a non-audible advanced self diagnostic & self-testing microcontroller- based system
- Optional audible Advanced Diagnostics available
- Optional Non-Advanced Diagnostics available
- Non-Advanced 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 for 0-10V fixtures

- During a power outage the emergency fixtures are dimmed to field selectable levels of 25%, 40% or 45% 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 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

Unit has a three-year warranty
 Detailed warranty terms located on page 202 or online at:
 www.emergi-lite.com/usa/files/EL_Warranty.pdf



Load shedding

			Mini-Inverter @ 80% capacity (W)	Maximum capacity (W) per circuit
Mini-Inverter load	Voltage	Load shedding	in emergency mode	in stand-by mode
EMIU-1000-4-LD	120	25%	3200	800
EMIU-1000-4-LD	120	50%	1600	800
EMIU-1000-4-LD	120	75%	1200	800
EMIU-1000-4-LD	120	100%	800	800
			Mini-Inverter @ 70% capacity (W)	Maximum capacity (W) per circuit
Mini-Inverter load	Voltage	Load shedding	in emergency mode	in stand-by mode
EMIU-1000-4-LD	277	25%	2800	700
EMIU-1000-4-LD	277	50%	1400	700
EMIU-1000-4-LD	277	75%	1050	700
EMIU-1000-4-LD	277	100%	700	700

Example

Mini-Inverter load	Load shedding	Fixture wattage (W)	Fixture power factor	Equipment safety factor	Voltage	Fixture quantity
EMIU-1000-4-LD	25%	57	0.96	20%	120	56
EMIU-1000-4-LD	50%	57	0.96	20%	120	28
EMIU-1000-4-LD	75%	57	0.96	20%	120	21
EMIU-1000-4-LD	100%	57	0.96	20%	120	12

Specifications

Transfer time	Voltage regulation on emergency	Frequency reglation on emergency	Inverter power factor range	Operating temperature
Less than 1 second	+/- 5%	60 Hz +/- 1%	0.8 leading to .08 lagging at 120V 1 leading to 1 lagging at 277V	68° to 86°F (20° to 30°C)

Replacement battery

Description	Part number
EMIU-1000	4X 860.0043-E

Electrical characteristics and dimensions

			Cabinet dimensions		No. of	Total weight	Weight w/o battery	
Power rating	Sine wave	Installation	Width	Height	Depth	batteries	120V & 277V	120V & 277V
1000W	Pure	Wall / floor	24"	40.75"	10.5"	4	266 lbs	114 lbs
1000W-4	Pure	Wall/ floor	24"	40.75"	14.5"	4	350 lbs	198 lbs

Power consumption and unit rating

			Emergency power availa		wer available for load	
Model number		AC specs	90 Min	2H	3H	4H
EMIU-1000	120/277VAC	12.8 / 5.3 Amps	1000W	807W	604W	489W

How to order

Series	Capacity	Voltage	Diagnostic feature	Options
EMIU	-1000= 1000W	Blank= 120/120VAC or 277/277VAC	-Blank= Advanced-Diagnostic, non-audible¹ -AD= Advanced-Diagnostic, audible¹ -NAD= No Advanced-Diagnostics³ -NEX= Nexus® wired -NEXRF= Nexus® wireless	-D3= Time delay (15 minutes) -SAC= Service alarm contact ² -4= 4 output circuits -4-LD= 4 output circuits with load shedding for 0-10V fixtures

¹Minimum load required: 10% of unit capacity
²Service alarm contact (SAC) shall be provided a 24V signal, the charger board will indicate a fault by closing a contact.
³When using a transfer device (automatic load control relay) you must choose the NAD option