1000W High Capacity Mini Inverter Series

Interruptible unit equipment



Housing

- 14 gauge steel
- White semi-gloss powder 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
- Consult your sales representative for high bay/after market LED lamp applications

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 high bay fixtures or screw in type lamps, please consult the factory.

Controls

- Standard with a **non-audible Advanced Diagnostics & self-testing** microcontroller-based system
- Optional audible Advanced Diagnostics available
- Optional **non-Advanced Diagnostics** 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%, 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 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

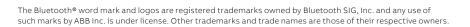
Approvals

- UL 924 Standard
- Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements

Warranty

- Battery has a 3 year full, plus 7 year pro-rata warranty
- Unit has a three year warranty Detailed warranty terms located at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

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Load shedding

Mini inverter load	Voltage (V)	80% capacity of 1000W ¹	If emergency load-shedding illumination is set to:	Maximum standby mode load capacity (W)	Maximum capacity per circuit cannot exceed (W) standby mode	Minimum number of circuits to load Inverter to full capacity
EMIU-1000-4-LD	120	800W	100%	800	800	1
		120% derating is standard load -	75%	1067	1067	1
		safety factor	50%	1600	1600	1
			25%	3200	1600	2
Mini inverter load	Voltage (V)	70% capacity of 1000W²	If emergency load-shedding illumination is set to:	Maximum standby mode load capacity (W)	Maximum capacity per circuit cannot exceed (W) standby mode	Minimum number of circuits to load Inverter to full capacity
EMIU-1000-4-LD	277	700W	100%	700	700	1
		²30% derating	75%	933	933	1
		is standard load safety factor	50%	1400	1400	1
			25%	2800	1400	2
EMIU-1000-4-LD	fixture qu	antity calculation	on example:			
• 120V Operation	80% capa	city of 1000W= 8	00W			
• 800W @ 100% b	orightness	in emergency= 8	00W (ex. 40W x 20 fixtu	res= 800W, on min. d	of 1 circuit)	

• 800W dimmed in emergency to 75% brightness= 1067W (ex. 40W x 26 fixtures= 1040W, on min. of 1 circuit)

• 800W dimmed in emergency to 50% brightness= 1600W (ex. 40W x 40 fixtures= 1600W, on min. of 1 circuit)

• 800W dimmed in emergency to 25% brightness= 3200W (ex. 40W x 80 fixtures= 3200W, split across 2 circuits)

(1600W maximum capacity per circuit in standby mode)

Specifications

Transfer time	Voltage regulation in emergency	Frequency regulation in emergency	Inverter power factor range	Operating temperature
Less than 1 second	+/- 5%	60 Hz +/- 1%	0.8 leading to 0.8 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 pov	wer available for load
Model number		AC specs	90 Min	2H	3Н	4H
EMIU-1000	120/277VAC	12.8 / 5.3 Amps	1000W	807W	604W	489W

How to order

Series	Capacity	Voltage	Diagnostic feature	Circuit	Options	Approval
EMIU Exam	-1000= 1000W	277/277VAC	-Blank= Advanced-Diagnostics, non-audible ¹ -AD= Advanced-Diagnostics, audible ¹ -NAD= No Advanced-Diagnostics ² -NEXP= Nexus®Pro IoT ¹ -NEXRF= Nexus® wireless ¹	-Blank= 1-output circuit -4= 4-output circuits -4-LD= 4-output circuits with load-shedding for 0-10V fixtures	-D3= Time delay (15 minutes) -SAC= Service alarm contact ³	-Blank= Standard approvals

¹Minimum load required: 10% of unit capacity

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

³Service alarm contact (SAC) shall be provided a 24V signal, the charger board will indicate a fault by closing a contact