New product

1500W 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 factory**[1]
- Consult your sales representative for high bay/after market LED lamp applications

Load capacity
- 1500W
- Line voltage allows for remote mounting of the emergency fixtures at distances up to 1,000 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

[1]When 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
- BC – California Energy Commission Title 20 (standard)

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 **at**:
  www.emergi-lite.com/usa/files/EL_Warranty.pdf

nexus Nexus®Pro

Load shedding

Mini inverter load	Voltage (V)	80% capacity of 1500W[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-1500-4-LD	120	1200W	100%	1200	1200	1
		[1]20% derating is standard load safety factor	75%	1600	1600	1
			50%	2400	1600	2
			25%	4800	1600	3
Mini inverter load	**Voltage (V)**	**70% capacity of 1500W[2]**	**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-1500-4-LD	277	1050W	100%	1050	1050	1
		[2]30% derating is standard load safety factor	75%	1400	1400	1
			50%	2100	1600	2
			25%	4200	1600	3

EMIU-1500-4-LD fixture quantity calculation example:

- 120V operation 80% capacity of 1500W= 1200W
- 1200W @ 100% brightness in emergency= 1200W (ex. 80W x 15 fixtures= 1200W, on min. of 1 circuit)
- 1200W dimmed in emergency to 75% brightness= 1600W (ex. 80W x 20 fixtures= 1600W, on min. of 1 circuit)
- 1200W dimmed in emergency to 50% brightness= 2400W (ex. 80W x 30 fixtures= 2400W, split across 2 circuits)
- 1200W dimmed in emergency to 25% brightness= 4800W (ex. 80W x 60 fixtures= 4800W, split across 3 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	+/- 3%	60 Hz +/- 1%	0.9 leading to 0.9 lagging	68° to 86°F (20° to 30°C)

Replacement battery

Description	Part number
EMIU-1500	4X 860.0096-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**
1500W	Pure	Wall / floor	24"	40.75"	14.5"	4	390 lbs	148 lbs
1500W-4	Pure	Wall/ floor	24"	40.75"	14.5"	4	390 lbs	148 lbs

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

Power consumption and unit rating

			Emergency power available for load			
Model number		**AC specs**	**90 Min**	**2H**	**3H**	**4H**
EMIU-1500	120/277VAC	17.6 / 6.3 Amps	1500W	1136W	789W	673W

How to order

Series	Capacity	Voltage	Diagnostic features	Circuits	Options
EMIU	**-1500**= 1500W	**Blank**= 120/120VAC or 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]

Example: EMIU-1500-4

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