New product

Mini Inverter Series

Interruptible unit equipment 400W

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)[1]
- Consult your sales representative for high bay/after market LED lamp applications

Load capacity
- 400W
- 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 microcontroller-based system
- Optional **audible** auto diagnostic available
- Standard lighting control override for 0-10V dimming systems

[1]When using high bay fixtures or screw in type lamps, please 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
- BC – California Energy Commission Title 20

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 (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 ensure proper and satisfactory operation.

nexus UL BC Nexus®Pro

Load shedding

Mini inverter load	Voltage	Load shedding	Mini inverter @ 80% capacity (W) in standby mode	Maximum capacity (W) per circuit in standby mode	Minimum number of circuits to load Inverter to full capacity
EMIU-400-4-LD	120	25%	1280	800	2
EMIU-400-4-LD	120	50%	640	640	1
EMIU-400-4-LD	120	75%	427	427	1
EMIU-400-4-LD	120	100%	320	320	1
Mini inverter load	**Voltage**	**Load shedding**	**Mini inverter @ 70% capacity (W) in standby mode**	**Maximum capacity (W) per circuit in standby mode**	**Minimum number of circuits to load Inverter to full capacity**
EMIU-400-4-LD	277	25%	1120	700	2
EMIU-400-4-LD	277	50%	560	560	1
EMIU-400-4-LD	277	75%	373	373	1
EMIU-400-4-LD	277	100%	280	280	1

Example

Mini inverter load	Load shedding	Fixture wattage (W)	Fixture power factor	Equipment safety factor	Voltage	Fixture quantity
EMIU-400-4-LD	25%	57	0.96	20%	120	22
EMIU-400-4-LD	50%	57	0.96	20%	120	11
EMIU-400-4-LD	75%	57	0.96	20%	120	7
EMIU-400-4-LD	100%	57	0.96	20%	120	5

Specifications

Transfer time	Voltage regulation on emergency	Frequency reglation on emergency	Inverter power factor range		Operating temperature
			120V	277V	
Less than 1 second	+/ -5%	60 Hz +/- 1%	400W model .8 leading to .8 lagging	400W model .9 leading to .9 lagging	68° to 86°F (20° to 30°C)

Replacement battery

Description	Suffix
EMIU-400	2X 860.0043-E

Electrical characteristics and dimensions

Power rating	Sine wave	Installation	Cabinet dimensions			No. of batteries	Total weight	Weight w/o battery
			Width	Height	Depth		120V & 277V	120V & 277V
400W	Pure	Wall	24"	20"	10.5"	2	150 lbs	65 lbs

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

Power consumption and unit rating - non-CEC models

Model number		AC specs	Emergency power available for load			
			90 Min	2H	3H	4H
EMIU-400	120/277VAC	4.60 / 2.00 Amps	400W	300W	200W	150W

Power consumption and unit rating - CEC models

Model number		AC specs	Power consumed in standby mode	Emergency power available for load			
				90 Min	2H	3H	4H
EMIU-400	120/277VAC	3.73 / 1.62 Amps	3.21W	400W	300W	200W	150W

How to order

Series	Capacity	Voltage	Diagnostic feature	Options	Approval
EMIU	**-400**= 400W	**Blank**= 120/120VAC or 277/277VAC	**-Blank**= **Advanced Diagnostic, non-audible**[1] **-AD**= **Advanced Diagnostic, audible**[1] **-NAD**= No **Advanced Diagnostics**[2] **-NEXP**= Nexus®Pro IoT[1] **-NEXRF**= Nexus® wireless[1]	**-D3**= Time delay (15 minutes) **-SAC**= Service alarm contact[3] **-4**= 4 output circuits **-4-LD**= 4 output circuits with load shedding for 0-10V fixtures	**-CEC**= CEC Title 20 for California

Example: EMIU-400

[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 provide a 24V signal, the charger board will indicate a fault by choosing a contact.