Mini Inverter Series

Interruptible unit equipment 720W



Housing

- · 14-gauge steel
- White semi-gloss powered-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

Load capacity

- 720W
- 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

- Standard with a non-audible self diagnostic/charger is fully self-contained, fully automatic microcontrollerbased system
- · Optional audible auto diagnostic available
- Standard lighting control override for 0-10V dimming systems

¹When using Hi-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

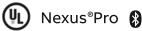
- UL 924 Standard
- Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements

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 on page 202 or online 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.







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-720-4-LD	120	25%	2304	576
EMIU-720-4-LD	120	50%	1152	576
EMIU-720-4-LD	120	75%	768	576
EMIU-720-4-LD	120	100%	576	576
			Mini-Inverter @ 70% capacity (W)	Maximum capacity (W) per circuit
Mini-Inverter load	Voltage	Load shedding	in emergency mode	in stand-by mode
EMIU-720-4-LD	277	25%	2016	504
EMIU-720-4-LD	277	50%	1008	504
EMIU-720-4-LD	277	75%	756	504
EMIU-720-4-LD	277	100%	504	504

Example

Mini-Inverter load	Load shedding	Fixture wattage (W)	Fixture power factor	Equipment safety factor	Voltage	Fixture quantity
EMIU-720-4-LD	25%	57	0.96	20%	120	40
EMIU-720-4-LD	50%	57	0.96	20%	120	20
EMIU-720-4-LD	75%	57	0.96	20%	120	13
EMIU-720-4-LD	100%	57	0.96	20%	120	10

Specifications	Replacement battery
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Transfer	Voltage regulation on	Frequency reglation on	Inve	Operating	
time	emergency	emergency	120V	277V	temperature
Less than 1 second	+/ -5%	60 Hz +/- 1%	720W model .8 leading to .8 lagging	720W model .9 leading to .9 lagging	68° to 86°F (20° to 30°C)

Description	Suffix
EMIU-720	2X 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
720W	Pure	Wall	24"	20"	14.5"	2	220 lbs	95 lbs

Note: For wiring diagram, please refer to the specification sheets $% \left(1\right) =\left(1\right) \left(1\right)$

Power consumption and unit rating

					Emergency p	ower available for load
Model number		AC specs	90 Min	2H	3H	4H
EMIU-720	120/277VAC	9.60 / 4.00 Amps	720W	480W	360W	270W

How to order

Series	Capacity	Voltage	Diagnostic feature	Options
EMIU	-720 = 720W	Blank= 120/120VAC or 277/277VAC	-Blank= Advanced Diagnostic, non-audible1	-D3= Time delay (15 minutes)
			-AD= Advanced Diagnostic, audible ¹	-SAC= Service alarm contact ²
			-NAD= No Advanced Diagnostics⁴	-4= 4 output circuits
			-NEX= Nexus® wired	-4-LD= 4 output circuits with load shedding
			-NEXRF= Nexus® wireless	for 0-10V fixtures
Examp	ole: EMIU-720		-NEXP= Nexus®Pro IoT³	

¹Minimum load required: 10% of unit capacity
²Service alarm contact (SAC) shall provide a 24V signal, the charger board will indicate a fault by choosing a contact.

³Available on EMIU-720-4 and EMIU-720-4-LD

⁴When using a transfer device (automatic load control relay) you must choose the NAD option