



Sinusoidal (Sine Wave) Output
100 VA Maximum Output Power
Automatic Output Voltage Select
Automatic Dimming (0 to 10V) of Connected Load
up to 400VA

Product order number:
ELIS100

12 NC number:
913702471201

Project: _____
Location: _____
Cat.No: _____
Type: _____
Qty: _____
Notes: _____

Specifications

UL Listed for US and Canada

Listed to UL924 and tested to CSA 22.2 No.141
Field or Factory Installation (Indoor and Damp)

Maximum Connected Load Power

400 VA - Auto-dim with 0-10V luminaires - see
note (page 2)*

Warranty

Electronics: 5 years full
Battery: 3 years full plus 4 years pro rata

Illumination Time

90 Minutes

AC Input Voltage

120 VAC, 60 Hz or 277 VAC, 60 Hz

Input Charging Current

370 mA Max Charging

Output Voltage

120 or 277 VAC, 60Hz, automatically selected

Output Power

Maximum output: 100VA
Minimum load P.F +/- 0.75

Transfer Time

2 - 5 seconds

Charging Indicator Light/Test Switch

Integrated LED/test switch

Battery

Maintenance-Free Sealed Lead Acid Battery

Recharge Time

24 Hours

Loads Operated

LED (per NEMA 10410, formerly NEMA 410)
Fluorescent
Incandescent

Temperature Rating (Ambient)

32° F to 104° F (0° C to 40° C)

Dimensions

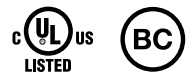
12.56" x 9.81" x 4.68"
(319 mm x 249 mm x 119 mm)

Weight

25 lbs. with batteries installed

Included

Enclosure with control board assembly,
installation kit (mounting hardware, fittings, and
site wiring not included), and batteries (x2),
packaged together

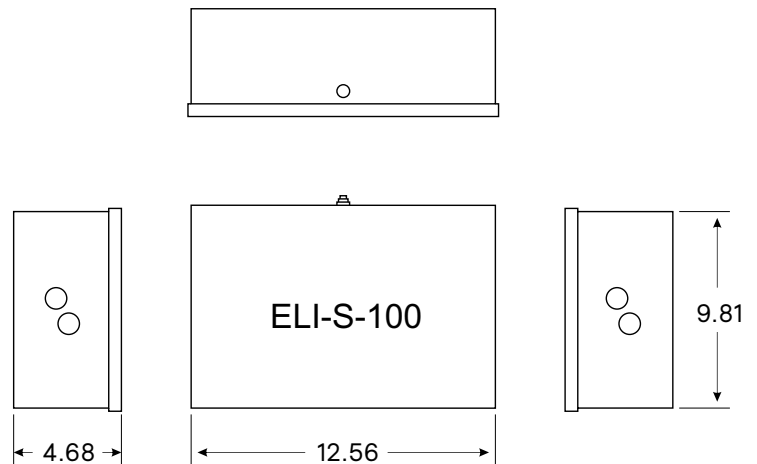


Benefits:

- Automatic output voltage select
- Automatic dimming (0 to 10V) of connected load
- Adjustable maximum dim setting
- Works with LED, fluorescent and incandescent fixtures
- Ideal for (but not limited to) screw-base LED lamps
- Compatible with AC (line voltage) driven TLED lamps
- Remote-mounting up to 250 feet
- Meets CEC Title 20 efficiency standards

Dimensions

12.56" x 9.81" x 4.68" (319 mm x 249 mm x 119 mm)



ELI-S-100

Sinusoidal backup inverter with dimming capability

Application

The Bodine ELI-S-100 Emergency Lighting Inverter works in conjunction with incandescent, fluorescent or LED fixtures to create an emergency lighting system. The ELI-S-100 operates a maximum load of 100VA at unity power factor. It allows the connected fixture(s) to be on, off, switched or dimmed without affecting emergency operation. Each unit consists of two sealed lead acid batteries, charger and electronic circuitry in one steel case. The ELI-S-100 provides power to the input side of the fixture(s), including AC ballast/driver, and can be used with indoor or outdoor emergency fixture applications. The ELI-S-100 is not suitable for use with HID or incandescent sources nor is it rated for an outdoor mounting location.

Operation

Upon failure of normal power, the ELI-S-100 begins providing emergency power to the connected lighting load for a minimum of 90 minutes. A low voltage disconnect circuit protects the inverter batteries from damage by deep discharge during prolonged power failures. When normal power is restored, the ELI-S-100 automatically returns to charge mode. The battery capacity is fully restored in 24 hours.

Dimming and Auto-Dim

The ELI-S-100 features a dimming control output of 0-10 volts. This dimming capability allows one or more fixtures with a normal (non-emergency) power rating of up to 400VA* to operate at a dimmed maximum emergency-mode lighting level of 100VA. For example, the diagram below shows ten 40 W (input) LED fixtures connected to one ELI-S-100 and automatically dimmed for emergency operation to 25% of normal power input, with each LED fixture supplying approximately 10W of output power.* The emergency mode output dimming voltage is

automatically controlled by the ELI-S-100 electronic circuitry to maintain 100VA output throughout an emergency event. In the Normal, (non-emergency) mode, normal dimming operation of the connected fixtures is not affected. The ELI-S-100 passes through the normal room dimming control voltage (0-10V) if used. The maximum emergency mode output dimming voltage is also field settable in 5 steps to provide nominally 20%, 40%, 60%, 80%, or 100% light output. See product installation instructions for more information.

Installation

The ELI-S-100 does not affect normal fixture operation and may be used with a switched or unswitched fixture. It can be installed in close proximity to the fixture or remote from the fixture (up to 250 feet though further is possible, consult the factory).

Emergency Illumination

The ELI-S-100 supports a 100VA emergency illumination for a minimum of 90 minutes.

Code Compliance

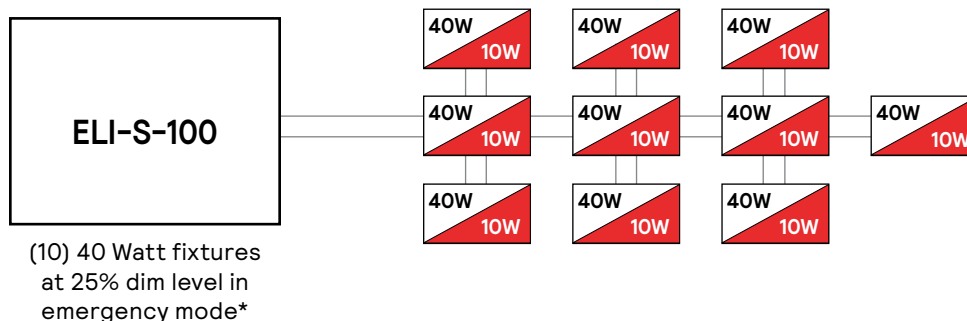
The ELI-S-100 has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment". The ELI-S-100 is UL Listed for field installation. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC), and UL 90-minute requirements.

Specification

Emergency lighting shall be provided by using a standard fixture equipped with a Bodine ELI-S-100. Each unit consists of two maintenance free sealed lead acid batteries, charger and electronic circuitry contained in one 12.56" x 9.81" x 4.68" metal case. The ELI-S-100 unit shall be capable of powering any fluorescent or LED lighting fixture load, up to 400VA when using 0-10V dimming, at a maximum emergency rating of 100VA at 0°C to 40°C for a minimum 90 minutes regardless of local switch position. The ELI-S-100 shall allow the connected fixture(s) to be on, off, switched or dimmed without affecting emergency operation. The ELI-S-100 unit shall exceed emergency standards set forth by the current NEC and CEC. It shall be UL Listed for factory or field installation.

Warranty

The ELI-S-100 is warranted for five (5) years from the date of manufacture. This warranty excludes the batteries, which have a warranty of three (3) years full plus four (4) additional years pro rata. This warranty covers only properly installed Bodine ELI-S-100 emergency units used under normal conditions. For the warranty period, Bodine will, at its option, repair or replace without charge a defective inverter provided it is returned to the factory transportation prepaid on inspection will be conducted to determine if the unit is defective under the terms of the warranty. Repair or replacement, as stated above, shall constitute the purchaser's exclusive warranty, which does not extend to transportation, installation, labor or any other charges; nor does it apply to any equipment of another manufacturer used in conjunction with the inverter.

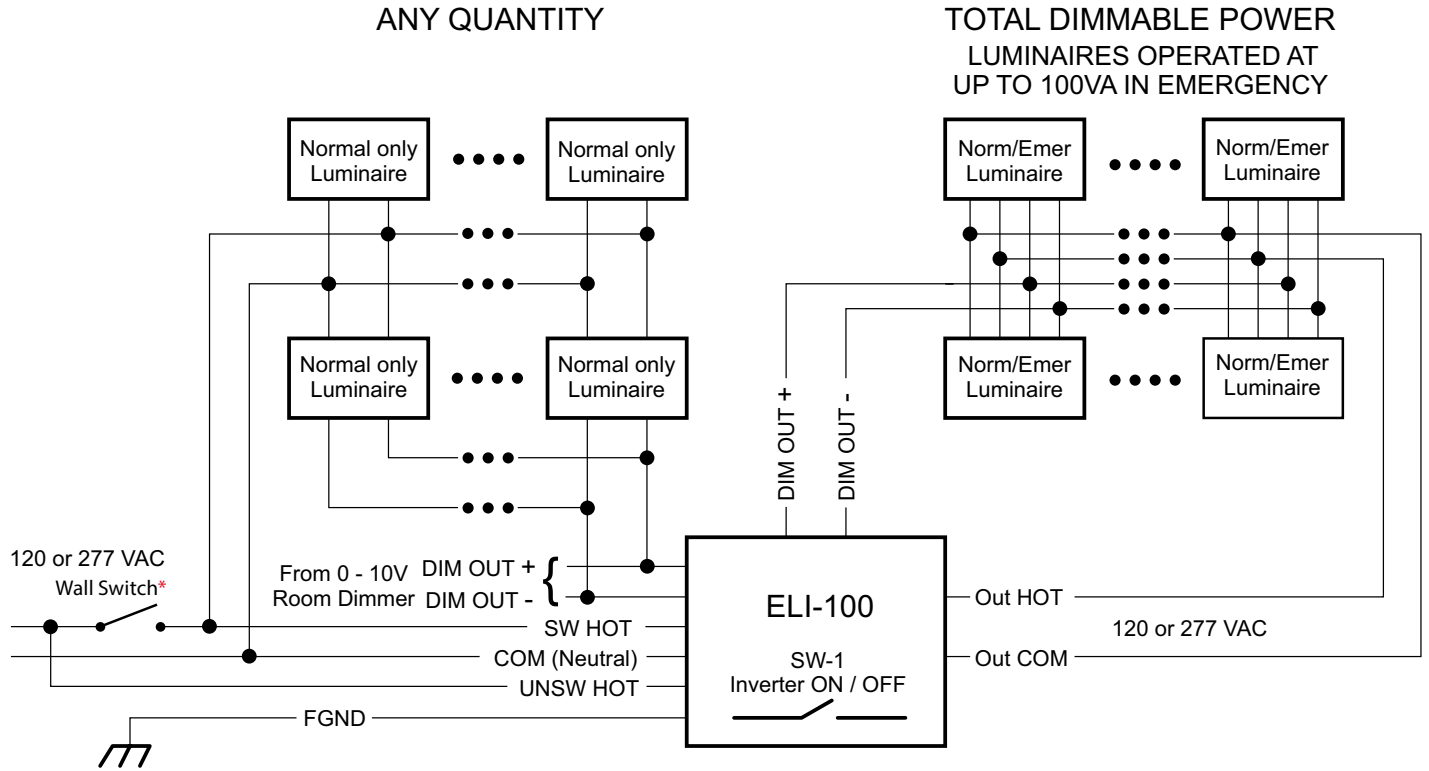


* Note: The maximum connected load of 400 VA is achievable with specific 0-10V dimmable loads that have undergone factory testing. While other loads rated at this power level may be compatible, they should be pretested either at the factory or in the shop prior to specification or field installation whenever feasible. Auto-dimming performance can be influenced by several factors, including power factor and driver efficiency at dimmed output levels. Furthermore, the luminaire must be capable of achieving the required lower dimming levels. The example provided in this document represent ideal conditions and may not accurately reflect real-world scenarios. For complete details, see the inverter design guide and other guidance found on www.bodine.com/inverter.

ELI-S-100

Sinusoidal backup inverter with dimming capability

Schematic



* All connected fixtures must be fed from the same branch circuit and controlled by a single switch or switching means.

Replacement Parts

Batteries	Installation Kit
PRT00133 Two batteries per box, one box required for replacement	PRT00136 Fixture warning labels, ground wires, battery harness, battery bracket

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