



Sinusoidal (Sine Wave) Output
 550 VA Output Power Maximum
 For LED, Fluorescent, Incandescent & Halogen Loads
 Automatic Code-Compliant Testing
 Multi-Circuit Compatible
 BABA Compliant

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

Product order number:
 ELIS550

12 NC number:
 913702512401

Specifications

UL Listed for Installation in US

Listed to UL 924 for Field Installation
 (Indoor, conditioned spaces)

Maximum Output Power

550 VA

Maximum Connected Load Power

550 W

Illumination Time

90 Minutes

AC Input/Output Voltage, Field Selectable

120 VAC +/- 10%, or 277 VAC +/- 10%

AC Input/Output Frequency

60 Hz, ± 5%

AC Input Current, (battery charging, maximum)

1.50 A, 120Vac or
 0.70 A, 277Vac

AC Output Current (maximum)

7.00 A, 120Vac or
 3.05 A, 277Vac

Maximum Short Circuit Current Rating

10 kAIC at 120 VAC
 5 kAIC at 277 VAC

Battery (three required)

12 V (nominal), 35 Ah
 Maintenance-Free Sealed Lead Acid Battery

Recharge Time

24 Hours

Status Indicator Lights/ Test Switch

Integrated Indicator Lights/Test Switch Panel

Transfer Time

8 ms (approx.)

Temperature Rating (Ambient)

68°F to 86°F (20°C to 30°C)

Extra Output Circuits

One (1) provided, breaker protected (10 A)

BABA Compliant

Built in the USA

Dimensions

22.0" H x 19.0" W x 9.3" D
 (55.9 cm x 48.3 cm x 23.5 cm)

Weight

Enclosure and Electronics only: 55 lbs. (24.9 kg)
 Batteries: 25.0 lbs. ea. (11.35 kg)
 Batteries total: 75 lbs. (34.1 kg)
 Total: 130 lbs. (59.0 kg)

Warranty

Electronics: 3 years full
 Battery: 1 year full plus 9 years pro rata

Included

Box 1 – Enclosure with control board assembly and internal wiring (mounting hardware, fittings, and site wiring not included)
 Boxes 2 to 4 – Batteries (3x, 1/box), packaged separately

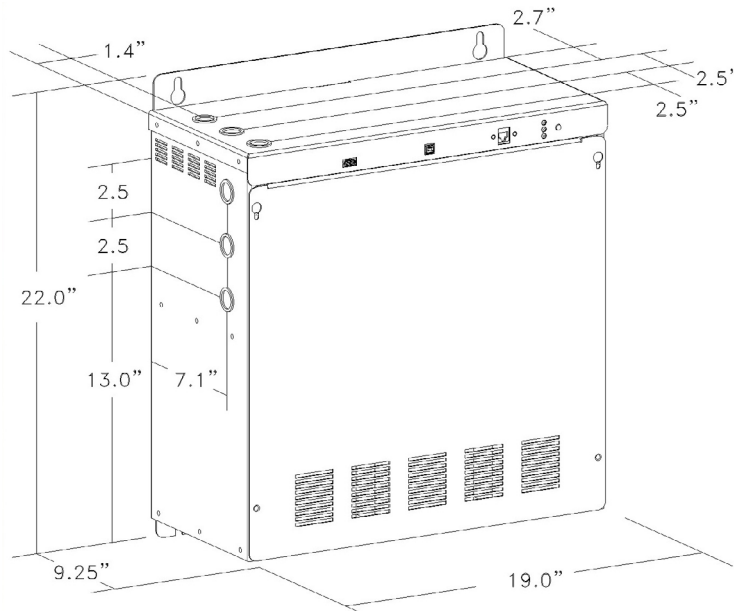


Benefits

- Sinusoidal output
- Field selectable output voltage
- Automatic code-compliant testing
- Automatic load monitoring after commissioning (if enabled)
- Compatible with most LED, fluorescent, halogen and incandescent fixtures
- One extra circuit breaker provided for separately switched loads (switch override may be required)
- Remote-mounting up to 1,000 feet maximum
- BABA compliant (built in the USA)

Dimensions

Keyhole spacing – Vertical: 16.0" (40.6 cm) Horizontal: 20.94" (53.19 cm)



ELI-S-550

Sinusoidal emergency backup inverter

Application

The Bodine ELI-S-550 Emergency Lighting Inverter works in conjunction with LED, fluorescent, halogen or incandescent fixtures to create an emergency lighting system. The ELI-S-550 operates at a maximum output power of 550 VA. It allows the connected fixture(s) to be on, off, switched or dimmed without affecting emergency operation. Each unit consists of three sealed lead acid batteries, charger and electronic circuitry in one steel case. The ELI-S-550 provides power to the input side of the fixture, including the AC ballast/driver, and can be used with indoor or outdoor emergency fixture applications. The ELI-S-550 is NOT suitable for use with HID lighting nor is it rated for outdoor mounting locations.

Operation

Upon failure of normal power, the ELI-S-550 begins providing emergency power to the connected lighting load for a minimum of 90 minutes. A low voltage disconnect circuit protects the inverter during prolonged power failures. When normal power is restored, the ELI-S-550 automatically returns to charge mode. The battery capacity is fully restored in 24 hours. During automated testing, the ELI-S-550 simulates an AC power outage. This causes the inverter to switch to emergency mode and conduct a discharge test to monitor battery voltage and load operation. If the ELI-S-550 detects a problem, the status indicator light flashes. When testing is complete, the ELI-S-550 returns to the charging mode. Automatic testing is conducted for at least 30 seconds once a month and 90 minutes once a year.

Installation

The ELI-S-550 does not affect normal fixture operation and may be used with a switched or unswitched fixtures. It can be installed in close proximity to the lighting load or remote from it (using suitable wiring).

Commissioning

Commissioning the ELI-S-550 requires initial calibration as part of the full product installation in order to accurately monitor the load for changes (new UL 924 requirement). See installation instructions for details.

Specification

Emergency lighting shall be provided by using a standard fixture or group of fixtures powered with a Bodine ELI-S-550 self-testing/self-diagnostic emergency lighting inverter. Electronic circuitry shall be self-testing in design and automatically test emergency lighting for a minimum of 30 seconds every 28 days and 90 minutes once a year. Each ELI-S-550 unit consists of three maintenance-free sealed lead acid batteries, and electronic battery charging and output generation circuitry contained in one 22.0"H x 19.0"W x 9.3"D metal case. The ELI-S-550 unit shall be capable of powering any combination of LED, fluorescent, halogen or incandescent lighting fixtures rated at a total of up to 550 W input power at 20°C to 30°C for a minimum of 90 minutes at an output power of 550 VA during emergency operation, regardless of local switch or dimmer position. The ELI-S-550 shall allow the connected fixture(s) to be on, off, switched or dimmed without affecting emergency operation. The ELI-S-550 unit shall exceed emergency standards set forth by the current NEC. This device complies with Part 15 of the FCC Rules.

It shall be UL Listed, suitable for indoor, conditioned locations, and warranted for three years from date of manufacturing (excluding battery). The device shall be BABA compliant.

Emergency Illumination

The ELI-S-550 supports 550 VA of emergency power for a minimum of 90 minutes.

Code Compliance

The ELI-S-550 has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment". The ELI-S-550 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.

Warranty

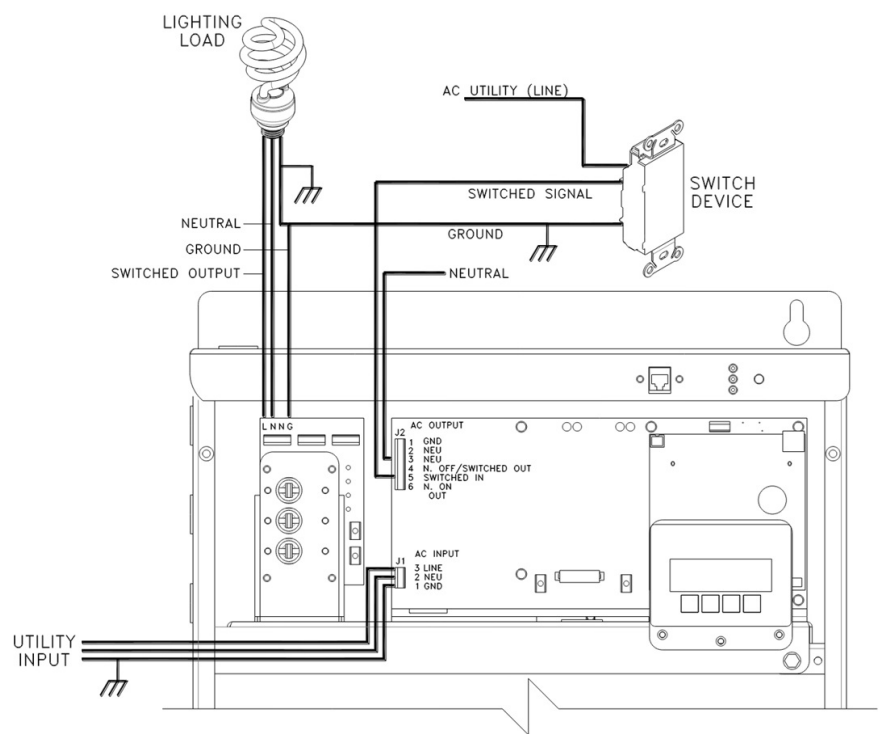
Model ELI-S-550 is warranted for three (3) full year from the date of manufacture. This warranty excludes the batteries, which have a warranty of one (1) year full plus nine (9) additional years pro rata. This warranty covers only properly installed Bodine emergency inverters used under normal conditions. 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 and our inspection determines it to be defective under 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.



ELI-S-550

Sinusoidal emergency backup inverter

Schematic



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

Extended Run Time vs. Output Power

	ELI-S-175GM	ELI-S-550	ELI-S-750	ELI-S-1100
Run Time (Minutes)	Output Power (Watts)	Output Power (Watts)	Output Power (Watts)	Output Power (Watts)
120 Minutes	135W	450W	575W	850W
180 Minutes	95W	325W	425W	650W
240 Minutes	75W	225W	300W	450W
300 Minutes	55W	175W	250W	350W
360 Minutes	45W	150W	200W	300W

Replacement Parts

Batteries and other replacement parts are available. Please contact Bodine Tech Support at 1-888-263-4638, Option 2 for more information.

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