

**PHILIPS**  
**bodine**

Emergency Backup

Inverter

ELI-S-400



Project: \_\_\_\_\_

Type: \_\_\_\_\_

Model No: \_\_\_\_\_

Qty: \_\_\_\_\_

Date: \_\_\_\_\_

Notes: \_\_\_\_\_

## Emergency Lighting Inverter Sinusoidal (Sine Wave) Output 400 VA Power Maximum

Product order number ELIS400RPVT (Batteries shipped separately)

### Specifications

#### ETL Listed for US

Listed to UL924  
For Field Installation

#### Illumination Time

90 Minutes

#### Maximum Load Power

400VA

#### Full Warranty

1 year full, 4 years pro-rata

#### Input

- Input voltage (dual): 120 or 277VAC
- Input frequency: 60 Hz
- Synchronizing slew rate: 1 Hz per second nominal
- Input surge protection: Meets UL 924

#### Output

- Output voltage (dual): 120 or 277VAC, 60Hz
- Output regulation: (static)  $\pm 5\%$  based on a 0 - 100% resistive load
- Output distortion: Less than 3% THD linear load
- Load Power Factor: .5 lag to .5 lead
- Output frequency: Normally synchronized to utility,  $\pm 2$  Hz during emergency
- Overload: 150% for five seconds
- Time to transfer to inverter after a utility power failure: 50 ms.

#### Charging Indicator Light/Test Switch

Integrated LED/test switch

#### Battery Type

Maintenance-Free Sealed Lead Calcium

#### Recharge Time

Less than 168 Hours (meets UL924)

#### Battery Protection

Automatic low-battery voltage disconnect and reverse polarity protection. Automatic restart upon utility return

#### Temperature Rating

68°F to 86°F (20°C to 30°C)

#### Dimensions

18"W x 8"D x 15"H

#### Weight

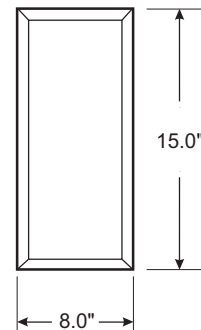
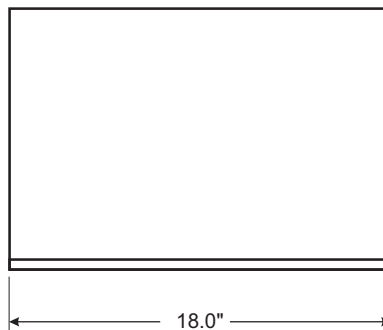
98 lbs (44.4 kg)

### Benefits:

- Sine wave output
- 400 VA power maximum
- Transfer Time: 50 ms

### Dimensions

18.0"W x 8.0"D x 15.0"H



# ELI-S-400

## Backup Inverter – 400VA Sinusoidal (Sine Wave) output

### APPLICATION

The Philips Bodine ELI-S-400 SineWave Emergency Lighting Inverter works in conjunction with LED fluorescent, or incandescent Lighting loads to create an emergency lighting system. The ELI-S-400 supports a maximum load of 400 VA. The unit consists of a sealed lead calcium battery, charger and electronic circuitry in one steel case. ELI-S-400 provides power to the input side of the fixture, including the ballast, and can be used with indoor or outdoor emergency fixture applications.

### OPERATION

Upon failure of normal power, the ELI-S-400 instantly begins providing emergency power to the connected lighting load for a minimum of 90 minutes. A solid-state low voltage disconnect circuit protects the inverter battery from severe damage by deep discharge during prolonged power failures. When normal power is restored, the automatic, temperature-compensated, variable-rate float charger begins recharging the battery. The battery capacity is fully restored in less than 168 hours. A brownout sensing circuit ensures proper operation during low line conditions.

### INSTALLATION

The ELI-S-400 does not affect normal fixture operation and may be used with a switched or unswitched fixture. It is designed for surface mounting and may be installed up to 1000 feet from the emergency fixture.

### EMERGENCY ILLUMINATION

The ELI-S-400 supports 400 VA of emergency illumination for a minimum of 90 minutes. The unit will support lumen output at 90% of the lamp rating throughout the 90-minute emergency illumination period.

### SPECIFICATION

Emergency lighting shall be provided by using emergency fixtures equipped with a Philips Bodine ELI-S-400. The unit consists of sealed calcium battery, charger and electronic circuitry contained in one 18.0" x 8.0" x 15.0" metal case. Solid-state indicator lights signal operational status. The inverter unit shall be capable of powering LED incandescent, or fluorescent lighting loads for a minimum 90 minutes regardless of local switch position. The ELI-S-400 shall support up to 400 VA. It shall allow the connected fixture(s) to be on,

off, switched or dimmed without affecting emergency operation. The inverter shall exceed emergency standards set forth by the current NEC. It shall be Listed for installation remote from the fixture.

### WARRANTY

Model ELI-S-400 is warranted for one (1) full year from the date of manufacture. This warranty covers only properly installed Philips Bodine emergency inverters used under normal conditions. For the warranty period, Philips Emergency Lighting 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.

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