



Sinusoidal (Sine Wave) Output  
20 or 25 Watts Output Power  
Auto Voltage Select 120 or 277 VAC  
Code-Compliant 90-Minute Run-time

**Product order number:**  
ELIS20

**12NC number:**  
913701233802

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

### Specifications

#### Regulatory Certifications

UL Listed to UL 924 & tested to CSA 22.2 No. 141  
Factory or Field Installation (Indoor and Damp)  
Input Title 20 CEC Compliant

#### Illumination Time

90 Minutes

#### Maximum Load Power (including AC ballast/driver)

20 W (0-50°C) US and Canada  
25 W (0-45°C) US only

#### AC Input Voltage

120/277 VAC, 60 Hz

#### AC Input Current

65 mA

#### AC Input Power Rating

8.0 W

#### Output Voltage

120/277 VAC (Auto Select), 60Hz

#### Output Current

120 V, 165 or 210 mA; 277 V, 72 or 90 mA

#### Test Switch

Single Pole (Momentary)

#### Charging Indicator Light

LED

#### Loads Operated

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

#### Battery

High-Temperature, Maintenance-Free ,  
Nickel-Cadmium Battery,  
7 to 10-year life expectancy

#### Recharge Time

24 Hours

#### Temperature Rating (Ambient)

0-50°C (32-122°F) for 20 W  
0-45°C (32-113°F) for 25 W

#### Weight

5 lbs (2.3 kg)

#### Warranty

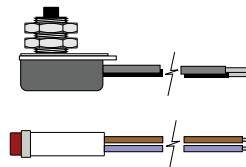
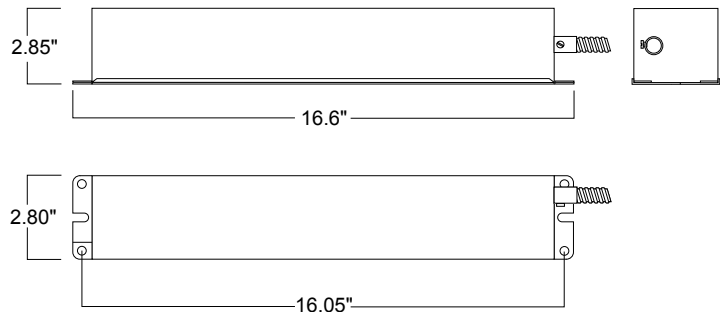
5 years (NOT pro-rata)

### Benefits:

- Sine wave output
- Fused output load connections
- Works with LED, fluorescent and incandescent fixtures
- Ideal for (but not limited to) screw-base LED lamps
- Auto Select feature helps reduce wiring errors
- Compatible with AC (line voltage) driven TLED lamps
- Remote-mounting up to 250 feet maximum

### Dimensions

16.6" x 2.8" x 2.85" (422 mm x 71 mm x 72mm)  
Mounting Center - 16.05" (408 mm)



A test switch and charging indicator light are provided.

# ELI-S-20

## 20VA Pure Sine Wave Micro Inverter

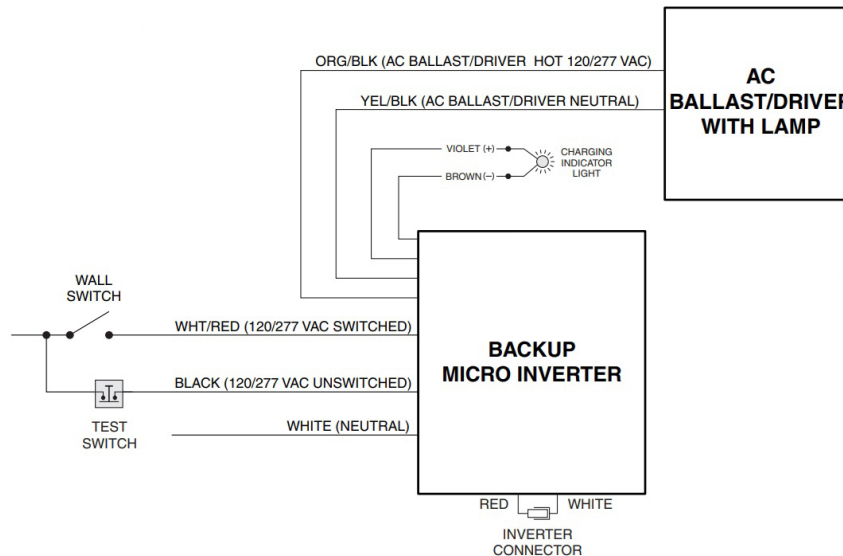
### Application

The Bodine ELI-S-20 Emergency Lighting Inverter works in conjunction with a fluorescent or LED fixture to create an emergency lighting system. The ELI-S-20 operates a maximum load of 20 or 25 W 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 a high-temperature nickel-cadmium battery, charger and electronic circuitry in one steel case. The ELI-S-20 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-20 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 ELI-S-20 automatically returns to charge mode. The battery capacity is fully restored in 24 hours.

### Schematic



### Installation

The ELI-S-20 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).

### Emergency Illumination

The ELI-S-20 supports emergency illumination for a minimum of 90 minutes. At a maximum of 20 W (or 25 W at 0-45°C) at unity power factor the ELI-S-20 will provide input power to ballasted lamp supporting it at 100% of the AC rated output throughout the 90-minute emergency illumination period.

### Specification

Emergency lighting shall be provided by using a standard fixture equipped with a Bodine ELI-S-20. Each unit consists of a high-temperature, maintenance free nickel-cadmium battery, charger and electronic circuitry contained in one 16.6" x 2.8" x 2.85" metal case. Solid-state indicator light signals operational status. The ELI-S-20 unit shall be capable of powering any fluorescent or LED lighting fixture rated at a maximum of 20 W or 25 W at 0 to 45°C (at unity power factor) for

a minimum 90 minutes regardless of local switch position. The ELI-S-20 shall allow the connected fixture(s) to be on, off, switched or dimmed without affecting emergency operation. The ELI-S-20 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-20 is warranted for five (5) years from the date of manufacture. This warranty covers only properly installed Bodine emergency ELI-S-20s used under normal conditions. For the warranty period, Bodine 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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