

# ELI™ SERIES BACKUP MICRO INVERTER

ELI-S-20 20 W Emergency Lighting Inverter Sinusoidal

# PHILIPS bodine

A Division Of Philips Electronics North America Corporation

**120 or 277 VAC, 60Hz;  
Auto select (120/277 VAC) sine wave output, 60Hz;  
90-minute runtime**

## Product Summary

### UL Listed

Factory or Field Installation  
(Indoor and Damp)



### Illumination Time

90 Minutes

### Maximum Load Power

20 W (Including AC ballast/driver)

### Full Warranty

5 years (NOT pro-rata)

### AC Input Voltage

120 or 277 VAC, 60 Hz

### AC Input Current

90 mA

### AC Input Power Rating

9.5 W

### Output Voltage

120/277 VAC (Auto Select), 60Hz

### Output Current

120 V, 165 mA  
277 V, 72 mA

### Test Switch

Single Pole (Momentary)

### Battery

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

### Battery Charging Current

250 mA

### Recharge Time

24 Hours

### Charging Indicator Light

LED

### Temperature Rating (Ambient)

32° F to 122° F  
(0° C to 50° C)

### Dimensions

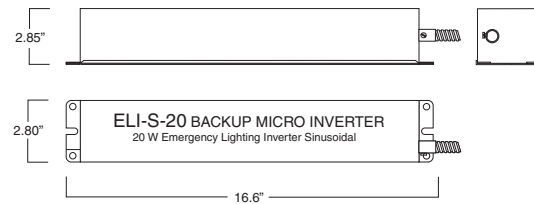
16.6" x 2.8" x 2.85"  
(422 mm x 71 mm x 73 mm)  
Mounting Center  
16.05" (408mm)

### Weight

5 lbs. (2.3 kg)

### Special Features

Fused Output Load Connections



## APPLICATION

The Philips Bodine ELI-S-20 Emergency Lighting Micro 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 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.

## 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).

## UL AND CODE COMPLIANCE

The ELI-S-20 has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment," and is UL Listed for factory or field installation. Emergency illumination exceeds the National Electrical Code (NEC) and Life Safety Code (NFPA-LSC) and UL 90-minute requirements.

## Specifiers Reference

Project \_\_\_\_\_ Type \_\_\_\_\_ Model No. \_\_\_\_\_

Comments \_\_\_\_\_

L2500003

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## EMERGENCY ILLUMINATION

The ELI-S-20 supports emergency illumination for a minimum of 90 minutes. At a maximum of 20 W 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 Philips 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 lights signal 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 (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. It shall be UL Listed, suitable for damp locations and warranted for a full five years from date of purchase.

## WARRANTY

The ELI-S-20 is warranted for five (5) years from the date of purchase. This warranty covers only properly installed Philips Bodine emergency ELI-S-20s 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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