Type No	
Job Name	
Catalog No.	



### Electronics

- ESBSPN14 power unit operates 7 watt compact fluorescent hazardous fixtures in both AC and emergency modes
- ESBS30, ESBS50 and ESBS100 power units operate 6 and 12 volt DC incandescent hazardous fixtures in emergency mode only
- 120/277 VAC selectable input
- External AC indicator light and press-to-test switch
- ESBSPN14, ESBS30 and ESBS50 feature solid-state, constant current charger
- ESBS100 features temperature compensated, solidstate charger with low voltage disconnect (LVD), brownout protection and AC lockout protection

## **Electrical Specifications**

120 VAC - 0.50 amps, 60 watts 277 VAC - 0.22 amps, 60 watts

### Housing

- Copper-free cast aluminum enclosure designed to withstand the pressure of internal arc generated explosions without propagating them into the hazardous atmosphere
- Enclosure and cover are each single piece construction, and cover is threaded to allow easy attachment and removal
- Enclosure includes three threaded openings for 3/4" rigid conduit — one for AC input and two for mounting hazardous fixtures

## Warranty

Electronics: 3 years Battery: 5 years full, 5 years pro-rata (nickel cadmium) 1 year full, 4 years pro-rata (pure lead)



**ESBS** Series

Class I, II, and III, Division 1 Explosion Proof Emergency Power Unit

> ESBSPN14: 4.8V, 14W Nickel Cadmium ESBS30: 6V, 28W Nickel Cadmium ESBS50: 12V, 50W Nickel Cadmium ESBS100: 6V, 85W Pure Lead

**UL Listed For Use In Hazardous Areas** 

### Battery

- ESBSPN14, ESBS30 and ESBS50 include sealed nickel cadmium batteries
- ESBS100 includes sealed pure lead battery

# Code Compliance

- UL listed to 924, 844, 1203 and 1604
- UL listed for use in :
  - Class I: Div. 1, Groups C & D, Zones O, 1 & 2, Groups IIA, IIB + H<sub>2</sub> & IIC
  - Class I: Div. 2, Groups C & D, Zone 2, Groups IIA, IIB + H2 & IIC
  - Class II: Div. 1, Groups E, F & G
  - Class II: Div. 2, Groups F & G
- Class III

# Application



ESBS Power Unit shown powering HAZP126 luminaire and HAZP126 with Exit Accessory Kit.

# PHILIPS

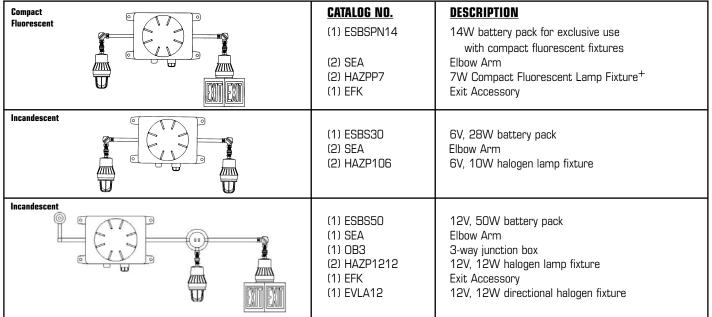
# **ESBS Series**

### **Ordering Information**

6 VOLT	CATALOG NO.	TOTAL UNIT Output Wattage For 90 Minutes	LAMP OPERATION	OPERATION MODE	OPTIONS	Ordering Example ESBS30 TD
Sealed Nickel Cadmium	ESBS30 <sup>2</sup> ESBSPN14 <sup>1</sup>	<u>28</u> 14	Incandescent Compact Fluorescent (1) OR (2) 7 Watt	Emergency Only AC & Emergency	<ul><li>EX = Special Input Transformer (Specify voltage &amp; frequency)</li><li>KL = Key Lock 2 Way, Battery</li></ul>	Model —— Options ————
Pure Lead	ESBS100 <sup>2</sup>	85	Incandescent	Emergency Only	Disconnect for Servicing <b>TD1</b> = 120 VAC Time Delay $^4$	
12 VOLT	CATALOG NO.	TOTAL UNIT OUTPUT WATTAGE FOR 90 MINUTES	LAMP OPERATION	OPERATION MODE	<b>TD2</b> = 277 VAC Time Delay $4$	
Sealed Nickel Cadmium	ESBS50 <sup>3</sup>	50	Incandescent	Emergency Only		

**NOTES:** 1) For "Normally On" use exclusively with HAZWP7, HAZCP7, and HAZPP7 remotes. Maximum remote distance is 8 feet. 2) For "Normally Off" use exclusively with HAZ Series 6 VDC remotes. 3) For "Normally Off" use exclusively with HAZ Series 12 VDC remotes. 4) 15 minute delay.

## Sample Applications



#### **Suggested Specification**

Furnish and install LightGuard explosion proof emergency lighting model \_\_\_\_\_. The unit shall be listed to Underwriters Laboratories, Inc. (UL) Standard #924, 844, 1203 and 1604. The unit shall also be UL listed for use in Class I, Division 1, Groups C & D, Zones ), 1 & 2, Groups IIA, IIB + H<sub>2</sub> & IIC; Class I, Division 2, Groups C & D, Zone 2, Groups IIA, IIB + H<sub>2</sub> & IIC; Class I, Division 1, Groups C & D, Zones ), 1 & 2, Groups IIA, IIB + H<sub>2</sub> & IIC; Class I, Division 2, Groups C & D, Zone 2, Groups IIA, IIB + H<sub>2</sub> & IIC; Class II, Division 1, Groups C & D, Zones ), 1 & 2, Groups IIA, IIB + H<sub>2</sub> & IIC; Class II, Division 1, Groups C & D, Zones ), 1 & 2, Groups IIA, IIB + H<sub>2</sub> & IIC; Class II, Division 1, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups IIA, IIB + H<sub>2</sub> & IIC; Class I, Division 1, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & D, Zones ), 1 & 2, Groups C & 2, Groups

ESDSHI1(4) or shall be temperature compensated LESES1UU capable of recharging the battery per U.L. standards. Unit shall be furnished with a 120/277 dual input transformer.

**BATTERY** - The battery shall be sealed nickel cadmium (ESBS30, ESBS50, ESBSPN14) or pure lead (ESBS100). **HOUSING** - The enclosure shall be constructed of copper-free cast aluminum, suitable for hazardous areas. Enclosure dimensions and specifications shall prevent propagation of internal explosions into hazardous atmospheres.

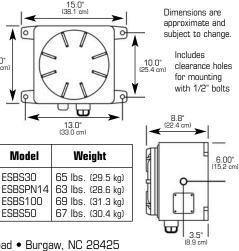
CONTROLS - The unit shall include a "Press-to-Test" switch and an AC monitor light. ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE





272 West Stag Park Service Road • Burgaw, NC 28425 (910) 259-1131 • FAX (800) 403-6927 www.lightguard.com

### Dimensions



L2038r12 5/09 IH