



Shown: ESBS30



ESBS Series

- **Class I, II, and III, Division 1 Explosion Proof**
- **Emergency Power Unit**
- **ESBSPN14: 4.8 V, 14 W Nickel Cadmium**
- **ESBS30: 6 V, 28 W Nickel Cadmium**
- **ESBS50: 12 V, 50 W Nickel Cadmium**
- **ESBS100: 6 V, 85 W Pure Lead**
- **UL Listed For Use In Hazardous Areas**

Electronics

- ESBSPN14 power unit operates 7 W compact fluorescent hazardous fixtures in both AC and emergency modes
- The ESBSPN14 is approved for use with the HAZ Series lamp head equipped with EFK exit accessory
- ESBS30, ESBS50 and ESBS100 power units operate 6 and 12 V DC incandescent hazardous fixtures in emergency mode only
- 120/277 VAC dual voltage input with surge-protected, solid-state circuitry provides for a reliable charging system
- Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch

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
- The ESBS Series meets the Buy American requirements

Warranty

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

Electrical Specifications

- ESBS30: (120 VAC) 0.15 A, 60 Hz, (120 VAC) 0.08 A, 60 Hz
- ESBS50, ESBS100: (120 VAC) 0.33 A, 60 Hz, (120 VAC) 0.16 A, 60 Hz
- ESBSPN14: (120 VAC) 0.50 A, 60 Hz, (120 VAC) 0.25 A, 60 Hz

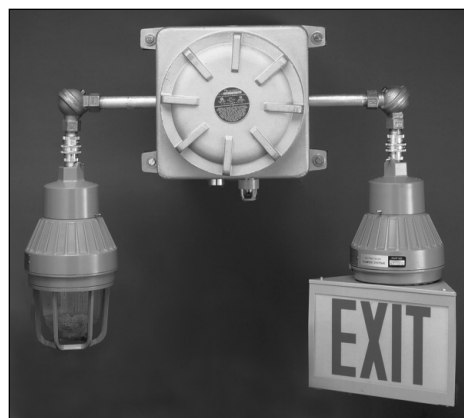
Battery

- 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 0, 1 & 2, Groups IIA, IIB + H2 & 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.

Ordering Information

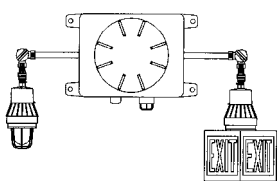
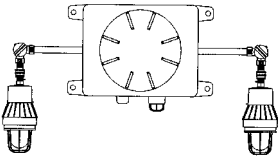
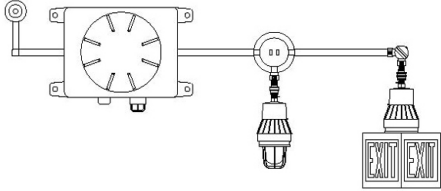
6 VOLT	CATALOG NO.	TOTAL UNIT OUTPUT WATTAGE FOR 90 MINUTES	LAMP OPERATION	OPERATION MODE	OPTIONS
Sealed Nickel Cadmium	ESBS30 ²	28	Incandescent	Emergency Only	EX = Special Input Transformer (Specify voltage & frequency) TD1 = 120 VAC Time Delay ⁴ TD2 = 277 VAC Time Delay ⁴
	ESBSPN14 ¹	14	Compact Fluorescent (1) OR (2) 7 W	AC & Emergency	
Pure Lead	ESBS100 ²	85	Incandescent	Emergency Only	
12 VOLT	CATALOG NO.	TOTAL UNIT OUTPUT WATTAGE FOR 90 MINUTES	LAMP OPERATION	OPERATION MODE	
Sealed Nickel Cadmium	ESBS50 ³	50	Incandescent	Emergency Only	

Ordering Example

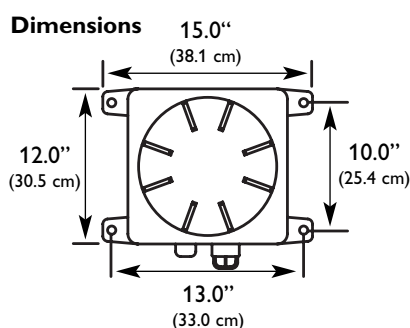
ESBS30 TD1
 Model
 Options

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

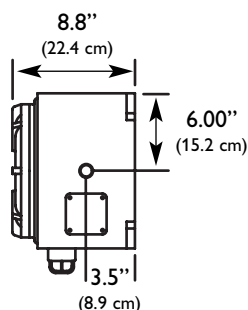
Compact Fluorescent 	CATALOG NO. (1) ESBSPN14 (2) SEA (2) HAZPP7 (1) EFK	DESCRIPTION 14 W battery pack for exclusive use with compact fluorescent fixtures Elbow Arm 7 W Compact Fluorescent Lamp Fixture* Exit Accessory
Incandescent 	(1) ESBS30 (2) SEA (2) HAZP106	6 V, 28 W battery pack Elbow Arm 6 V, 10 W halogen lamp fixture
Incandescent 	(1) ESBS50 (1) SEA (1) OB3 (2) HAZP1212 (1) EFK (1) EVLA12	12 V, 50 W battery pack Elbow Arm 3-way junction box 12 V, 12 W halogen lamp fixture Exit Accessory 12 V, 12 W directional halogen fixture

Dimensions



Dimensions are approximate and subject to change.

Includes clearance holes for mounting with 1/2" bolts



Model	Weight
ESBS30	65 lbs. (29.5 kg)
ESBSPN14	63 lbs. (28.6 kg)
ESBS100	69 lbs. (31.3 kg)
ESBS50	67 lbs. (30.4 kg)

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 + H₂ & IIC; Class II, Division 1, Groups E, F & G; and Class III.

INSTALLATION/OPERATION - Unit shall operate two unswitched compact fluorescent lamp fixtures continuously in both AC and emergency mode (ESBSPN14) or incandescent DC lamp fixtures in emergency mode only (ESBS30, ESBS50, ESBS100). Installation must comply with the NEC Code as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within 24 hours following a rated discharge of not more than 90 minutes

CHARGER - The charger shall provide a controlled constant current charge rate (ESBS30, ESBS50, ESBSPN14) or shall be temperature compensated (ESBS100) capable of recharging the battery per U.L. 924 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.



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