Type No		
Job Name		
Catalon No		





Listed to 924, 844, 1203, 1604

Shown: ESBS30

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 solidstate, constant current charger
- ESBS100 features temperature compensated, solid-state charger with low voltage disconnect (LVD), brownout protection and AC lockout protection

Power Consumption

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

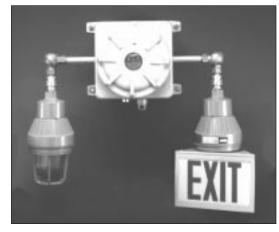
Battery

- 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 + 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
Sealed Nickel	ESBS30 ²	28	Incandescent	Emergency Only
Cadmium	ESBSPN14 ¹	14	Compact Fluorescent (1) OR (2) 7 Watt	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

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.

Options

Special Input Transformer (Specify voltage & frequency)

KL Key Lock 2 Way, Battery
Disconnect for Servicing

TD1 120 VAC Time Delay ⁴

TD2 277 VAC Time Delay ⁴

Ordering Example

	ESBS ₃ 0	TD1	
Model _			
Options			

Sample Applications

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

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 I, Division 2, Groups C & D, Zone 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, ESBS10D). 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, ESBS30 ESBS50 ESBS50 ESBS510) 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.





Dimensions

