



HZM Series

Class I Division 2 6 & 12 Volt Emergency Lighting Unit



Listed to UL924 Standard

Supplied with Diagnostics as Standard

For Use in Hazardous Locations:

- Class I Division 2 Groups A, B, C and D,

Sealed Maintenance-Free Batteries

- Lead Calcium

Applications:

- **Manufacturing Plants • Chemical Plants • Food Processing Areas • Paint Shops**
- **Moisture, Dirt or Dust Concerns • Wet or Corrosive Conditions**

General Information

The **HZM Series** is designed to prevent ignition of hazardous materials. Applications include locations where flammable materials are stored and handled.

Standard Features

Reliability: The HZM Series has a 3-year full warranty.

Enclosure Data: The water and corrosion resistant cabinet is formed from injection molded structural foam, glass reinforced material. The cabinet is fully gasketed around the cover. The test switch and AC pilot light are designed and exceed requirements for Class I, Division 2, Group A, B, C & D. The battery compartment is vented with a breather vent designed to permit exhaust of battery gases without admitting external moisture or corrosives. This design is also suitable for use in Class II Division 2, Group F & G applications. The HZM Series has a industrial gray finish and two EF11 weather resistant thermoplastic heads each with a 12 watt sealed beam high intensity tungsten lamp mounted on top of the enclosure. The 1" conduit entry has a rubber cover to eliminate all exposed metal parts.

Pulse Charger: Fully automatic pulse charger offers 120/277 VAC 60 Hz., 0.43/0.2 Amp., limited current temperature compensation, short circuit proof, reverse polarity protected, low voltage battery disconnect and brownout protection.

Diagnostics Circuitry: Will continuously monitor every critical function of the unit. If a problem occurs, a single fault indicator on the outside of the fixture flashes immediately. A detailed diagnostic display is located internally. The detailed display will further indicate the nature of the fault as either a battery fault, load fault or a charger fault.

Technical Information

Enclosure: structural foam, glass reinforced construction.

Finish: Industrial gray

Servicing: Fully gasketed front provides access to battery and charger.

Lighting Heads: The unit as standard, is furnished with two, EF11 weather resistant thermoplastic heads utilizing 12 watt sealed beam lamps. (Other lamps available - see Lamp Data Sheet).

Electrical

Power Requirements: 120/277 Vac, 60 Hz., 0.43/0.2 Amp.

Output: 6 or 12 volt protected output circuit.

Transfer: Automatically and instantly energizes lamp load upon failure of AC supply.

LVD: Low voltage battery disconnect circuit automatically shuts down lamp load and circuitry when battery reaches 87-1/2% discharge, preventing deep discharge and permanent damage to the battery.

Brownout: Close tolerance electronic circuit activates emergency unit when utility power dips below 80-85% of nominal voltage.

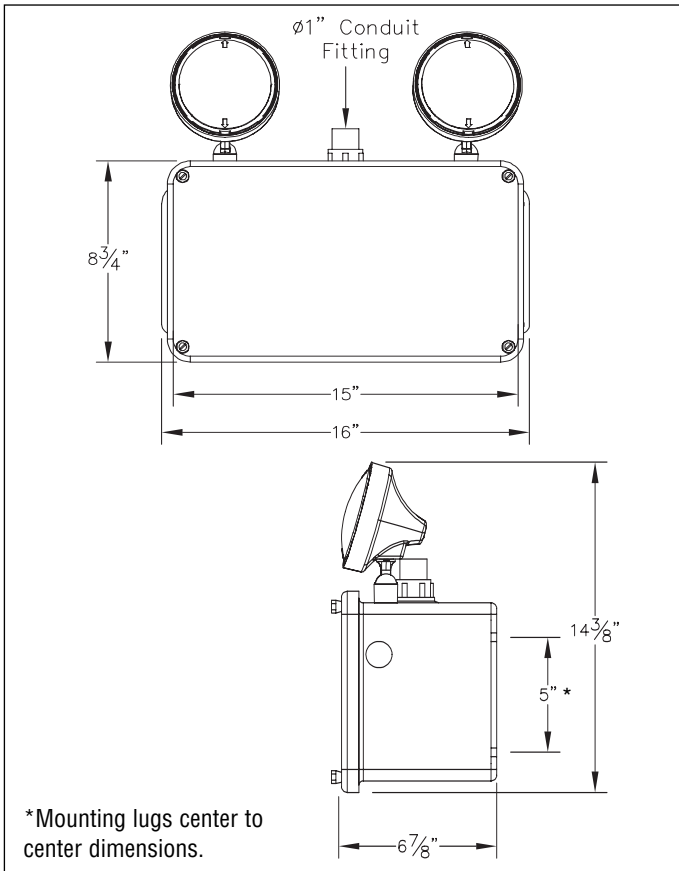
Charger: The pulse plus charger circuit utilizes a microcontroller which samples the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger is current limited, temperature compensated short-circuit proof and reverse polarity protected. Charge regulation +/-1%. The equipment is capable of full recharge in compliance with UL 924 specifications.

Transformer: 120/277 VAC.

Controls: Sealed push-to-test switch, indicator light for AC-On and fault indicator (flashes).

Outline and Dimensions

Dimensions are approximate and subject to change.



Suggested Specification

6 or 12 volt emergency lighting unit shall be installed in accordance with Article 501 of the National Electrical Code and shall be UL Listed. Transformer 120/277 volt input.

Units furnished with sealed 6 or 12 volt battery as specified. The unit charger utilizes a micro-controller circuit which samples the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit which will connect the battery when the AC circuit is activated, and an electronic brownout circuit which will activate the unit when utility power dips below 80-85% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load and circuitry from the output circuit when battery reaches 87-1/2% discharge. The unit shall be furnished with one or two protected charger output circuits and a solid state switch. The unit shall be capable of full recharge in compliance with Underwriters Laboratories specifications.

The unit shall be furnished complete with a test switch and AC pilot light UL Listed for Class I Division 2 requirements.

Cabinet shall be constructed of injected molded structural foam, glass reinforced. The unit shall have a fully gasketed cover. The battery compartment shall be provided with a breather vent designed for Class I Division 2 operation. The unit shall be furnished with two EF 11 weather resistant lighting heads. Heads to be constructed of impact resistant, flame retardant thermoplastic complete with 12 watt sealed beam high intensity lamps.

EMERGI-LITE catalog number _____.

Unit Rating Chart

Furnished standard with two 12 watt High Intensity sealed beam tungsten lamps.

UNIT EQUIPMENT - WITH REMOTE CAPABILITY						
Sealed Maintenance-Free Battery Types	D.C. Volt	Model Number	*Watts to 87 1/2% of rated battery voltage			
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Lead Calcium	6	6HZM24-2	24	18	10	6
	12	12HZM56-2	56	37	21	12

Standard Features (all models)

Radius of Protection: 2 ft.
Normal Life Span: 1 yr.



VC2-1 Vapor Capsule

Stahlin Vapor Capsules contain a unique vapor phase inhibitor designed to protect metallic surfaces within an enclosure against airborne corrosion. By simply placing these self-contained capsules inside an enclosure the vapors readily permeate every point, passivating all metallic surfaces. When the capsule is removed from its sealed package, it begins to emit an invisible, non-toxic vapor which is diffused throughout the surrounding atmosphere until the air is saturated. The vapor then passivates the metal surfaces against atmospheric corrosion by reducing the electro-chemical activity of the metal surfaces.

Optional Features

Description	Add Suffix
Time Delay (specify 5, 10 or 15 minutes)	-D1, D2, D3
Temperature Control 120 Volt Heater	-H1
Temperature Control 277 Volt Heater	-H2
Shatter resistant teflon coated lens	-TC

NOTE: Certain option combinations may affect the listing. Please contact the factory for specifics.

Accessories (order as a separate item)

Wire Guard WG3

How To Order (example)

12HZ	M	56	-	2	UE	-	H1
Series	Battery Type	Watts for 90 min.	No. of Head on unit	Lamp Option **12V 12W	Option 120 Volt Heater		

**See lamp data sheet for other wattages, if desired.

*Unit Warranty

Entire unit (excluding lamps and fuses) carries a 3-year Full Warranty.

*Battery Warranty

Unit batteries are warranted as follows:

Sealed Lead Calcium: 8-year life expectancy, 3-year Full Warranty, plus 3-year pro rata warranty.

*Subject to proper installation and maintenance.