

## GENERAL DESCRIPTION

The HZ Series LED Exit combines energy-saving LED technology, the added safety of an exit sign and emergency lighting combination, and a durable enclosure suitable for hazardous locations. The HZ Series is UL listed for use in Class I, Division 2 and Class II, Division 2 Areas.

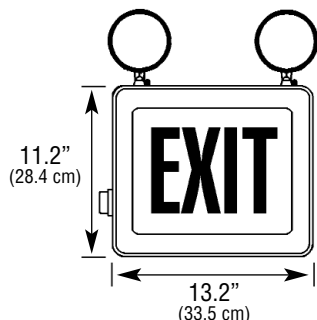
The HZ Series LED Exit offers several levels of protection against the elements, including dust, dirt and water. The exits are designed for use in hostile environments that would otherwise damage ordinary sign components.

## ILLUMINATION

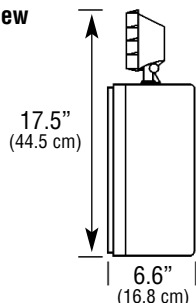
Illumination of the exit stencil face is accomplished with long lasting, high output, direct view LEDs.

## DIMENSIONS

### Front View



### Side View



Dimensions are approximate and subject to change.

# HZ Series

## Class I & II, Division 2

## Direct View LED Combination Exit/Emergency Combination Emergency Exit LED Illumination



### HOUSING

Constructed of impact resistant, fiberglass reinforced polyester. Housing color is gray with stainless steel hardware and clear polycarbonate cover.

Housing is suitable for use in NEMA 3, 4x, and 12 areas, and in Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H<sub>2</sub> & IIC; and Class II, Division 2, Groups F & G.

Includes one-piece formed gasket and corrosion resistant hardware.

Standard internal or external mounting feet provide installation flexibility.

### ELECTRONICS

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, and AC indicator lamp.

Accommodates one or two top-mounted 6 volt, 6 watt halogen Par 36 lamp heads.

Optional ACCU-TEST Self Diagnostics includes an automatic 3 minute discharge test every 30 days. A manual test is available from 1 to 90 minutes.

### BATTERY

Maintenance free, sealed lead calcium battery

Supplies 90 minutes of emergency power

Estimated service life of 5 years

Operating temperature range of 65°F (19°C) to 85°F (30°C)



SHOWN: HZ6L121R2ZY

### CODE COMPLIANCE

UL 924, 844, and 1604 listed

UL listed for use in Class I & II, Division 2 hazardous location areas

NFPA 101, NEC, BOCA, OSHA and IBC illumination standards

### ELECTRICAL SPECIFICATIONS

0.21 amps (120 VAC)

0.09 amps (277 VAC)

### WARRANTY

Three year full electronics warranty

One year full plus four year prorated battery warranty

## ORDERING INFORMATION (EXAMPLE: HZ6L121R2ZY)

HZ	6		1			—	
<b>SERIES</b>	<b>SYSTEM VOLTAGE</b>	<b>BATTERY/WATTAGE</b>	<b>STENCIL FACES</b>	<b>LETTER COLOR</b>	<b>LAMP HEAD TYPE<sup>1</sup></b>	<b>FACTORY INSTALLED OPTIONS<sup>2</sup></b>	
HZ = Hazardous Location LED Exit	6 = 6 VDC	L6 = Lead Calcium, 6W L12 = Lead Calcium, 12W L24 = Lead Calcium, 24W L60 = Lead Calcium, 60W	1 = Single	R = Red LED G = Green LED	NH = No Heads 1ZY = One Lamp Head 2ZY = Two Lamp Heads	AC = ACCU-TEST ACL = ACCU-TEST w/ Alarm EX = Special Input Transformer (Specify voltage & frequency) <sup>2</sup> S = Shatterproof Lamp Head Lens TD1 = 120 VAC Time Delay <sup>3</sup> TD2 = 277 VAC Time Delay <sup>3</sup>	

### NOTES:

- 1) Standard lamp head is 6 VDC, 6 Watt Halogen Par 36 (ZY style lamp head). Consult factory for alternate lamp heads
- 2) Some option combinations may impact UL listing. Consult factory for specifics.
- 3) 15 minute delay

# Specification Data for HZ Series LED Combination Emergency Exit

## HOUSING

Impact resistant, fiberglass-reinforced polyester is suitable for NEMA 4, 4x, and 12 areas. Housing color is gray with stainless steel hardware.

Housing is suitable for use in NEMA 3, 4x, and 12 areas, and in Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H<sub>2</sub> & IIC; and Class II, Division 2, Groups F & G.

Watertight enclosure includes a clear polycarbonate cover.

One-piece formed gasket eliminates potential for seal failure.

Standard internal mounting or external mounting feet for installation flexibility.

## ILLUMINATION

Direct view LEDs are driven to provide maximum face illumination (213 to 215 average footlambert), yet are not driven to exceed the LED manufacturers' recommended current-to-life cycle calculation.

## ELECTRONICS

120/277 VAC dual voltage input with surge-protected, solid-state charging circuitry provides for a reliable charging system. The charging system is furnished with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

The low voltage disconnect (LVD) feature will disconnect the battery prior to an unacceptable deep discharge, but not before the required 90 minute emergency operation.

The AC lockout feature prevents battery drain prior to the initial energizing of utility power, and allows the installer to complete all wiring and electrical connections without energizing the emergency circuit.

The brownout protection circuitry will automatically switch the unit into the emergency mode if the utility voltage sags below 20% of nominal.

Battery charging circuitry is entirely solid-state, and utilizes a fully automatic, voltage regulated charger. Battery recharge time after full discharge is less than the required UL 924 standard.

Line sensitive electronics cause an instantaneous transfer to battery power if utility power is lost, or a brownout condition is detected. When line voltage is present and stabilized, the transfer circuitry switches back to normal operation and begins recharging the battery. The transfer circuitry can be tested via a momentary test switch located on the housing.

## SELF-DIAGNOSTICS

The ACCU-TEST Self-Diagnostics option conducts automatic and manual tests, and indicates real time status of the lamp, battery and charger via LED indicator lamps. Automatic tests include: Systems analysis every 10 seconds, with actual load tests performed for a 3 minute duration every 30 days. A manual test is available from 1 to 90 minutes.

## BATTERY

A maintenance free, sealed lead calcium battery is standard. The battery is equipped with a quick connect plug assembly for easy installation and maintenance.

Standard sustained emergency operation is for 90 minutes with the LED illumination source providing full light output.

The suggested operating temperature range of 65°F (19°C) to 85°F (30°C) should provide a service life of 5 years.

## ELECTRICAL SPECIFICATIONS

0.21 amps (120 VAC)  
0.09 amps (277 VAC)

## CODE COMPLIANCE

The HZ Series meets or exceeds all performance standards as required by UL 924, NFPA 101, NEC, BOCA, OSHA and IBC.

## SUGGESTED SPECIFICATION

Furnish and install Chloride's LED combination emergency exit sign model \_\_\_\_\_. The combination emergency exit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC).

**INSTALLATION AND OPERATION** - Exit shall be easily field connected to a 120 or 277 VAC, 60 hertz, unswitched power source. Installation must comply with the NEC 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 level for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

**CHARGER** - Product shall utilize a fully automatic, voltage regulated charging system which will maintain the battery at full capacity without the need for periodic exercising or equalization. The following features shall be standard: Low voltage disconnect (LVD), brownout protection and AC lockout. Three year warranty provided.

**BATTERY** - The battery shall be a maintenance free, sealed lead calcium battery and shall provide trouble-free operation in temperatures up to 85°F (30°C). Lead calcium batteries shall be supplied with a one year full warranty.

**ILLUMINATION** - The HZ Series LED combination emergency exit signs shall incorporate high intensity direct view LEDs. The LEDs shall be designed so that the unlikely failure of one LED will not affect the integrity of the total sign in the emergency mode. The HZ Series combination emergency exit equipped with red or green LEDs shall consume 25.2 watts max.

**ENCLOSURE** - The exit housing shall be impact resistant, fiberglass reinforced polyester gray enclosure suitable for use in NEMA 3, 4x, and 12 areas, and in Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H<sub>2</sub> & IIC; and Class II, Division 2, Groups F & G. The housing shall include a one-piece formed gasket and corrosion resistant hardware.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



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SYSTEMS

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