

CHLORIDE SYSTEMS

TYPE: _____

CATALOG NO.: _____

GENERAL DESCRIPTION

The HZ Series LED Exit combines energy-saving LED technology with a durable enclosure suitable for hazardous locations. The HZ Series is UL listed for use in Class I, Division 2, Groups A, B, C & D, Class II, Division 2, Groups F & G.

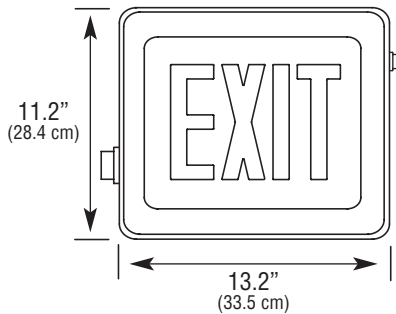
The HZ Series LED Exit offers several levels of protection against the elements, including dust, dirt and water. The HZ Series meets the Buy American requirements.

ILLUMINATION

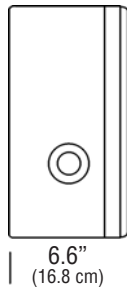
Illumination of the exit stencil face is accomplished with long lasting, high output LEDs, producing an average illumination level in excess of 25 fI (85.7 cd/m²) at the end of the 90 minute emergency run time.

DIMENSIONS

Front View



Side View



Dimensions are approximate and subject to change.

HZ Series

Class I & II, Division 2 Single Face LED Exits Standard Self-Diagnostics Electronics* AC Only and Self-Powered



SHOWN: HZNRIC

HOUSING

Constructed of impact-resistant, fiberglass-reinforced polyester. Housing color is gray with corrosion resistant hardware and clear polycarbonate cover. The HZ Series is UL listed for Class I, Division 2, Groups A, B, C & D; Class I, Zone 2, Groups IIA, IIB (+ H₂) & IIC; and Class II, Division 2, Groups F & G. The housing includes a one-piece formed gasket and corrosion-resistant hardware. Standard internal or external mounting feet provides installation flexibility.

ELECTRONICS

AC Only - 120/277 VAC dual voltage input with surge protection is standard on all models.

Emergency Operation - Charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation. See specification sheet C1465 for electronics details. 120/277 VAC input, surge protection, brownout, AC lockout and low voltage disconnect features are standard.

INTELLI-CHARGE SELF-TESTING DIAGNOSTICS (OPTIONAL)

The Intelli-Charge diagnostic/charging platform with self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. A one-minute or 90-minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the optional IR test device.

BATTERY

Maintenance free, sealed nickel cadmium battery
Minimum 90 minutes of emergency power
Estimated service life of 10 years
Operating temperature range of 65°F (19°C) to 85°F (30°C)

CODE COMPLIANCE

UL 924 and 844 listed
NFPA 101, NEC, BOCA, OSHA and IBC illumination standards
Temperature Rating (T-Rating) 160° (T3C)
Class I, Zone 2 T-Rating 200° (T3)
IEC 61951-1 Life Testing (batteries)

ELECTRICAL SPECIFICATIONS

AC Only

Red or Green
120 VAC, 60 Hz, 0.032 A, PF = 0.95
277 VAC, 60 Hz, 0.014 A, PF = 0.88

Self-Powered

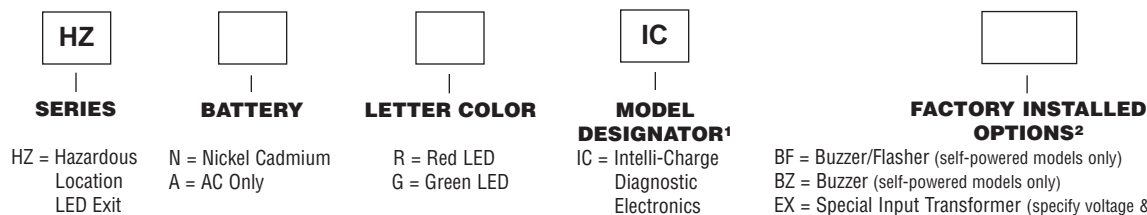
Red or Green
120 VAC, 60 Hz, 0.048 A, PF = 0.90
277 VAC, 60 Hz, 0.023 A, PF = 0.90

WARRANTY

Five year full electronics warranty
Five year full plus five year prorated battery warranty

*Self-powered models incorporate the Intelli-Charge diagnostics electronics package. Self-testing is a factory installed option.

ORDERING INFORMATION (EXAMPLE: HZNRIC)



ACCESSORIES (order as a separate line item)

ICIR = Intelli-Charge Infra-Red Remote
WG5 = Wire Guard

NOTES:

- 1) For self-testing models refer to options.
- 2) Some option combinations may impact UL listing. Consult factory for specifics.

Specification Data for HZ Series LED Exit

HOUSING

Impact-resistant, fiberglass-reinforced polyester.
Housing color is gray with stainless steel hardware.

The HZ Series is UL listed for Class I, Division 2, Groups A, B, C & D; Class I, Zone 2, Groups IIA, IIB (+ H₂) & 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

Illumination of the exit stencil face is accomplished with long lasting, high output LEDs. Hot spots and striations are eliminated by the integral light chamber. Average illumination levels are in excess of 25 fL (85.7 cd/m²) at the end of the 90 minute emergency run time.

ELECTRONICS

AC Only and Self-Powered

Dual voltage 120/277 VAC input with surge protection is standard on all models.

Self-Powered

A dual function indicator light is located on the face of the unit to signify that AC utility is present, as well as indicating the charge status of the battery.

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 brownout protection circuitry will automatically switch the unit into the emergency mode if the utility voltage drops below 85% of nominal.

Complete electronics specification data is available on the Intelli-Charge for Exits data sheet (C1465).

BATTERY (SELF-POWERED MODELS)

A maintenance free, sealed nickel cadmium battery is standard. Construction is of the sintered plate design and the battery assembly is equipped with a quick connect plug assembly for easy installation.

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 10 years.

The battery is compliant with IEC standard 61951-1.

ELECTRICAL SPECIFICATIONS

AC Only

Red or Green

120 VAC, 60 Hz, 0.032 A, PF = 0.95

277 VAC, 60 Hz, 0.014 A, PF = 0.88

Emergency Operation

Red or Green

120 VAC, 60 Hz, 0.048 A, PF = 0.90

277 VAC, 60 Hz, 0.023 A, PF = 0.90

CODE COMPLIANCE

The HZ Series meets or exceeds all performance standards as required by UL 924 and 844, NFPA 101, NEC, BOCA, OSHA and IBC, T3C (160° max.) Temperature Rating, Class I, Zone 2 T-Rating 200° (T3).

SUGGESTED SPECIFICATION

Furnish and install Chloride's LED exit sign model _____ . The exit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and UL standard 844, 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. (Self-Powered Only) - 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.

ELECTRONICS AC-Only Models - The exit sign shall be easily field connected to 120 or 277 VAC, 60 Hz un-switched power source. The HZ Series exit sign equipped with red or green LED's shall consume 0.032 A with a power factor of 0.95 (120 VAC) and 0.014 A with a power factor of 0.88 (277 VAC). Available factory-installed options shall include a fire alarm activated flasher option to accommodate an input from a fire alarm panel and provide a flashing rate when the alarm system is activated.

Self-Powered Models - All self-powered models shall be provided with Chloride's Intelli-Charge diagnostics electronics platform. The exit sign shall be easily field connected to 120 or 277 VAC, 60 Hz un-switched power source. Intelli-Charge will detect and notify the installer regarding incorrect wiring of the transformer primary and restrict the damaging effects from affecting the printed circuit board. The HZ Series exit sign equipped with red or green LED's shall consume 0.048 A with a power factor of 0.90 (120 VAC) and 0.023 A with a power factor of 0.90 (277 VAC). The Intelli-Charge electronics package shall provide continuous, real-time monitoring of all the critical equipment functions including, but not limited to: line voltage status and condition, charger fault, transfer fault, battery fault, and LED load fault and notify personnel with a visual indicator sequence. Optional audible diagnostics as well as self-testing diagnostics shall be available from the factory. The self-testing option shall satisfy the periodic testing requirements in NFPA 101, Life Safety Code as well as the International Building Code (IBC). The Intelli-Charge circuit shall continuously sample ambient temperature conditions and adjust the charging regime to compensate for typical and dramatic ambient conditions to maximize the life of the battery. An on-board IR receiver shall be standard and pre-programmed to operate from an optional IR user interface device (available as an accessory item).

BATTERY (Self-Powered Only) - The battery shall be maintenance free, sealed nickel cadmium utilizing sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 85°F (30°C). The battery shall be tested and recognized in accordance with the accelerated life testing requirements of the IEC standard 61951-1.

ILLUMINATION - The HZ Series LED exit signs shall incorporate high intensity 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 exit equipped with red or green LEDs shall consume 3.8 watts (AC Only) or 5.4 watts (Self-Powered). Average legend illumination shall be equal to or greater than 25 fL (85.7 cd/m²) at the end of the 90 minute emergency run time.

ENCLOSURE - The exit housing shall be impact-resistant, fiberglass-reinforced polyester gray enclosure and is UL listed for Class I, Division 2, Groups A, B, C & D; Class I, Zone 2, Groups IIA, IIB (+ H₂) & IIC; and Class II, Division 2, Groups F & G hazardous location areas. A one-piece formed gasket shall be included to eliminate potential for seal failure.



CHLORIDE
SYSTEMS

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