



HXI Series

Hostile Environment Units



**Self-Diagnostic
Operation
Standard!**

**Meets New York
City Requirements**

Features

- Suitable for use in hostile environments where oil, water and dust resistance is required
- 6 and 12 volt models
- Standard self-diagnostic operation
- Optional self-testing feature
- Sealed and gasketed construction
- Impact resistant, fiberglass reinforced polyester enclosure in industrial gray finish
- Momentary test switch and bi-color LED indicator shows AC ready, charge status and operation mode
- Built in viewing window in front cover for monitoring optional meter devices
- Fully adjustable thermoplastic lighting heads with locking swivel assemblies
- Choice of maintenance-free lead calcium, or nickel cadmium battery models
- 90 Minutes of emergency illumination
- Temperature range of 32°F to 104°F (0°C to 40°C)
- Universal 120/277VAC input
- Fully automatic battery charger standard
- Automatic low voltage battery disconnect
- Automatic brownout protection
- AC lockout feature reduces installation time
- Meets NFPA Life Safety Code 101, NEC, BOCA, OSHA, State and local Codes
- UL924 listed
- Hand-held IR test device available as accessory

Description

6 and 12 volt rugged fiberglass emergency lighting units UL listed for use in damp or wet locations.

Product Selector

Model No.	DC Volts	Watts 1 1/2 Hrs.	Watts 2 Hrs.	Watts 4 Hrs.	Watts 8 Hrs.	Battery Type	Weight (Lbs.)
HXN25I	6	25	19	12	--	nickel cadmium	15
HXN50I	6	50	37.5	24	8.5	nickel cadmium	16
HXN75I	6	75	56.5	28.5	15	nickel cadmium	23
HX25I	6	25	19	12	--	lead calcium	17
HX50I	6	50	37.5	24	8.5	lead calcium	18
HX75I	6	75	56.5	28.5	15	lead calcium	23
12HXN50I	12	50	37.5	24	8.5	nickel cadmium	17
12HXN75I	12	75	56.5	28.5	15	nickel cadmium	20
12HXN100I	12	100	75	48	17	nickel cadmium	22
12HXN125I	12	125	94	60	21.5	nickel cadmium	24
12HXN150I	12	150	112.5	72	25.5	nickel cadmium	26
12HX50I	12	50	37.5	24	8.5	lead calcium	18
12HX75I	12	75	56.5	28.5	15	lead calcium	20
12HX100I	12	100	75	48	17	lead calcium	29
12HX125I	12	125	94	60	21.5	lead calcium	32
12HX150I	12	150	112.5	72	25.5	lead calcium	34

NOTE: All product specifications shown are subject to change without notice.

Ordering Guide

Model Number (See Product Selector)	Options														
12HXN100I	-59 -TA														
<p>Lamp Type Designator</p> <table border="0"> <tr> <td>6 Volt Lamps</td> <td>12Volt Lamps</td> </tr> <tr> <td>-11 8 Watt (tungsten)</td> <td>-59 12 Watt (tungsten)</td> </tr> <tr> <td>-13 18 Watt (tungsten)</td> <td>-60 18 Watt (tungsten)</td> </tr> <tr> <td>-14 25 Watt (tungsten)</td> <td>-61 25 Watt (tungsten)</td> </tr> <tr> <td>-16 8 Watt (halogen)</td> <td>-66 30 Watt (tungsten)</td> </tr> <tr> <td>-18 12 Watt (halogen)</td> <td>-63 8 Watt (halogen)</td> </tr> <tr> <td></td> <td>-64 12 Watt (halogen)</td> </tr> </table> <p>NOTE: For units required without lighting heads, leave this designator blank.</p>		6 Volt Lamps	12Volt Lamps	-11 8 Watt (tungsten)	-59 12 Watt (tungsten)	-13 18 Watt (tungsten)	-60 18 Watt (tungsten)	-14 25 Watt (tungsten)	-61 25 Watt (tungsten)	-16 8 Watt (halogen)	-66 30 Watt (tungsten)	-18 12 Watt (halogen)	-63 8 Watt (halogen)		-64 12 Watt (halogen)
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Options ⁽¹⁾⁽²⁾

Add Suffix	Description
-V	DC Voltmeter
-A	DC Ammeter
-ACF1	AC Input Fuse (120VAC)
-ACF2	AC Input Fuse (277VAC)
-ACP1	AC Power Switch (120VAC)
-ACP2	AC Power Switch (277VAC)
-BD	Battery Disconnect Switch
-L1Z	Unit With One Lighting Head Mounted
-L2Z	Unit Without Lighting Heads
-A1Z	Unit With Three Lighting Heads Mounted
-T	Self-Testing Diagnostics
-TA	Self-Testing Diagnostics with Audible Alarm
-EX	Special Input Transformer (consult factory)
-S	Shatter Containment Lighting Head Lens
-TD	15-Minute Retransfer Time Delay

(1) Other options available. Consult factory.

(2) Some options may impact product UL listing. Consult factory.

Specifier Reference

Project: _____

Fixture Type: _____

Model No.: _____

Comments: _____

Accessories

Order Model	Description
ICIR	Infrared Remote Testing Device
950-G-**	Matching Remote Lighting Head ⁽³⁾
MP1	Mounting Plate (single)
MP3	Mounting Plate (double)
WG	Wire Guard

(3) Add lamp type designator from table in Ordering Guide above. Ex.: 950-G-59

Construction

Housing: Impact resistant, industrial gray fiberglass reinforced polyester enclosure with stainless steel hardware is completely sealed and gasketed. The enclosure includes a built in window in the front cover for viewing optional meter devices.

Lighting Heads: Impact resistant, UV stable, flame rated thermoplastic lamp housing and swivel assemblies in gray finish to match unit housing. Heads and swivels are sealed and gasketed. Lighting heads are fully adjustable and feature lockable swivels.

Installation

Mounting: Units are designed for installation to wall surfaces by means of four external mounting feet provided with the enclosure.

Wiring: A wiring hub is provided on the right hand side of the enclosure for attachment of surface wiring conduit.

Illumination

High output sealed beam lamps provide glare-free light distribution.

Lamp Type: Par 36 sealed beam type

6 Volt Lamp Ratings: 8 to 25 watt tungsten, 8 or 12 watt halogen

12 Volt Lamp Ratings: 12 to 30 watt tungsten, 8 or 12 watt halogen

Lamp Life: 100 hours (expected average)

Code Information

All models are UL924 Listed and meet NFPA 101 Life Safety Code, NEC, OSHA, BOCA, state and local Codes.

Charger and Electronics

Charger Type: Fully automatic and temperature compensating

Nickel Cadmium Models: Constant Current Type

Lead Calcium Models: Variable Rate Float Type

Utility Input: 120/277VAC, 60 Hz.

Power Consumption: 68 watts (maximum)

Temperature Range (All Models): 32°F to 104°F (0°C to 40°C)

Recharge Duty Cycle: 24 hours

Load Transfer: All models utilize a solid state transfer circuit for load connection.

Controls: Momentary test switch and LED AC-On indicator

Safety Circuitry:

AC Lockout: Prevents battery discharge prior to initial unit power-up saving installation time.

Low Voltage Battery Disconnect: Protects the battery from being severely damaged by deep discharge during prolonged power failures.

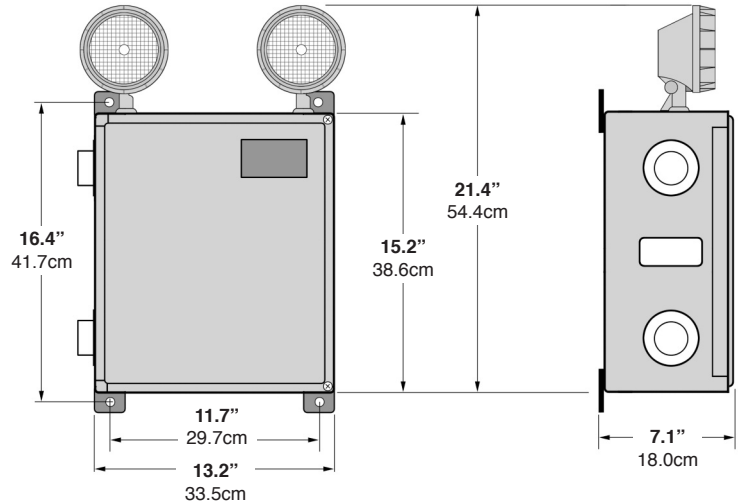
Surge Protection: Protects unit electronics from potentially dangerous utility line voltage surges.

Brownout Protection: Automatically switches the unit to emergency mode when AC sags below 80% of nominal.

Emergency Operation

Upon failure of the normal utility power, a solid-state transfer switch automatically connects the unit's battery to the emergency lamp. Emergency illumination will be supplied for a minimum of 90 minutes. During emergency operation, the unit battery is protected from severe discharge damage by an automatic low voltage disconnect circuit that discontinues unit operation when battery voltage reaches 87.5% of nominal. When normal utility power is restored, the battery is automatically disconnected from the load and a recharging cycle begins that will return the battery to full capacity within 24 hours.

Dimensions



Standard Self-Diagnostic Circuit

Self-diagnostic circuitry, standard on all models, checks charger, battery and transformer operation every 10 seconds. A bi-color LED lamp serves as the AC power, charger status and operating mode indicator. Coded LED flash signals identify operational fault type if detected. The self-diagnostic circuitry provides continuous, real-time monitoring of all critical equipment functions including, but not limited to: line voltage status and condition, charger fault, transfer fault, battery fault and load loss detection to 10% of total connected load. Manual test cycles from 1 to 90 minutes can be initiated at any time using the unit's manual test switch.

Optional Self-Testing Feature

Self-testing options are available in standard (-T) and audible alarm (-TA) configurations. The -T option provides automatic self-test cycles including a one-minute monthly test and a 30-minute test on the sixth and twelfth months. The -TA provides the automatic test features of the standard-T option plus an alarm feature that provides an audible signal in the event of a detected fault condition.

Infrared Remote Tester Accessory

The HXI Series hostile environment unit can be tested using the unit's integral manual test switch or with activation of a built in infrared sensor using the ICIR infrared remote testing device (See "Accessories" on front of sheet). The hand-held ICIR interface allows a user to activate a 1-, 30-, or 90-minute discharge test with the touch of a button from up to 30 feet from the unit location. The ICIR device also provides the ability to silence the audible signal on models equipped with the -TA self-diagnostic alert alarm option.



Battery

Sealed lead calcium or longest life sealed nickel cadmium maintenance free battery (depending on model) designed to provide many years of dependable service.

Warranty

Unit: (excluding lamps) 3-years full coverage against defects in materials and workmanship from date of shipment

Battery: 3 years full warranty plus an additional 7 years of pro-rata coverage