

# HDZ UNIT

HAZARDOUS



Industrial Application Emergency

Job/Location: _____	Job Type: _____
Contractor: _____	Date: _____
Prepared By: _____	



## ■ specifications: internal

The HDZ is configured with 120/277V input with solid state charging circuitry. Standard features include low voltage disconnect, AC lockout and brownout protection.

## ■ specifications: external

The HDZ housings are constructed from corrosion resistant, copper-free cast aluminum. The quick access thread on cover allows for trouble-free installation and reduces general maintenance time. A one-way stainless breather provides proper and effective unit ventilation. External mounting feet provide for simple and secure installations.

## ■ hazardous code chart

Location	Code / Designation
Class I, Division 1, Group B	C1D1GB
Class I, Division 1, Group B, C & D	C1D1GBCD
Class I, Division 1, Group C & D	C1D1GCD
Class I, Division 2, Group B, C & D	C1D2GBCD
Class I, Division 2, Group C & D	C1D2GCD
Class II, Division 1, Group E, F & G	C2D1GEFG
Class II, Division 2, Group E, F & G	C2D2GEFG
Class II, Division 2, Group G	C2D2GG
Class III, Division 1 & 2	C3D12

NOTE: Exact dimensions will vary depending on actual configuration and rating classification. Contact factory for details.

## ■ ordering logic

Series	Operation	Pb-A (Capacity)	Ni-Cd <sup>2</sup> (Capacity)	Hazardous Code	Emergency Heads	# of Lamps	Lamps	Options
HDZ <sup>1</sup>	6VDC	36 (6V, 12V)	42 (6V, 12V)	See hazardous code chart	0 (no heads)	1 <sup>3</sup> (single lamp)	See lamp selection	AT (autotest)
	12VDC	60 (6V, 12V)	54 (6V)		1XF (one head)	2 (double lamp)		NC <sup>4</sup> (nickel-cadmium battery)
	24VDC	72 (6V)	90 (6V, 12V)	above	2XF (two heads)		on next page	TD <sup>5</sup> (time delay- 0, 5, 10, 15 min)
		120 (6V, 12V)	130 (12V)				WG (cast wireguard)	
			100 (24V)					

- NOTE 1:** Freight not included for this item.
- NOTE 2:** Nickel-cadmium. Must select NC from options when selecting Ni-Cd.
- NOTE 3:** LED is available in single lamp only.
- NOTE 4:** NC (select wattage/voltage from Ni-Cd column).
- NOTE 5:** Must specify at time of order, 10 min standard.

**EXAMPLE:** HDZ-6-36-C1D1GB-1XF-1-Q-12W-AT  
**DESCRIPTION:** emergency unit, 6V, 36W, Class 1, Division 1, Group B, one head, single lamp, composite quartz 12W, autotest

## ■ emergency heads

The HDZ series offer a variety of lamp and fixture combinations including multiple remote emergency lighting heads and/or exit signs. Each emergency lighting head can be configured with one or two fully adjustable lamp and reflector assemblies contained within.

## ■ specifications: electrical

**BATTERY:** The HDZ is designed to be used with maintenance free, sealed valve regulated lead acid batteries that provide a minimum emergency duration of 90 minutes. Recharge time of the battery is twenty-four (24) hours. The operating temperature is from 50°F to 104°F (10°C to 40°C).

**CIRCUIT:** The HDZ series utilizes a high-efficiency two stage charger providing a fully automatic constant charging current with low voltage disconnect protection. All components used in the circuitry are temperature compensated. The charger also has brownout and short circuit protection. Charger status is easily determined via a dual diagnostic LED display which indicates AC/ON and High Charge. An external dust tight push button test switch allows maintenance personnel to quickly determine the operational status of the unit and lamp load.

## ■ specifications: mechanical

The HDZ series housing is constructed from corrosion resistant, copper-free aluminum. Featuring a threaded cover that allows for trouble free installation and reduced maintenance time. External mounting feet provide simple and secure installation. Exact dimensions will vary depending on the unit configuration and rating classification.

## ■ autotest

The Beghelli Autotest system automatically performs one (5) minute discharge test monthly and two (90) minute discharge tests every 6 months, 24 hours apart. This tests both full battery and recharge capability as required by code. Information is communicated simply and intuitively to maintenance personnel via a single multi-color LED.

- Red: Battery or Circuit Malfunction
- Yellow: Lamp Malfunctioning
- Green: Normal Operation

## ■ temperature codes

Temperature Codes Class I, Div. 1		
Lamp	4W LED	20W Halogen
T Code	T6	T4A

  

Temperature Codes Class I, Div. 2		
Lamp	4W LED	20W Halogen
T Code	T4A	T1

## ■ lamp selection

	6V	12V	24V
Composite Quartz (Q)	8W, 12W, 20W	8W, 12W, 20W	12W, 20W
LED (LED)	N/A	4W	4W

## ■ model rating guide

Model	Voltage	Wattage				Cabinet
		90min	120min	180min	240min	
HDZ-6-36	6	36	27	18	14	
HDZ-6-42	6	42	32	21	16	
HDZ-6-54	6	54	41	27	20	
HDZ-6-60	6	60	45	30	23	
HDZ-6-72	6	72	54	36	27	
HDZ-6-90	6	90	68	45	34	
HDZ-6-120 <sup>(1)</sup>	6	120	90	60	45	
HDZ-12-36	12	36	27	18	14	
HDZ-12-42	12	42	32	21	16	
HDZ-12-60	12	60	45	30	23	
HDZ-12-90	12	90	68	45	34	
HDZ-12-120 <sup>(1)</sup>	12	120	90	60	45	
HDZ-12-130	12	130	98	65	49	
HDZ-24-100	24	100	75	50	38	

[1]NOTE: Not available for all Class and Division ratings. Contact factory for details.

## ■ warranty

The HDZ comes with a 3-year factory warranty. Lamps are not covered under the warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.