



Emergency Ballasts

Linear Fluorescent

BHD55U



Hazardous Locations
One Lamp Illumination
End-of-Lamp-Life Compatible
Universal Input (120 through 277)

Product order number: BHD55UM (galvanized metal case)

Project: _____
Type: _____
Model No: _____ Qty: _____
Date: _____
Notes: _____

Specifications

UL COMPONENT RECOGNIZED

Factory Installation Only
(Indoor and Damp)

Illumination Time

90 Minutes

Initial Light Output

700-1200 Lumens

Full Warranty

3 Years (NOT pro-rata)

Universal Input Voltage

120 Through 277 VAC, 50 or 60 Hz

AC Input Current

90 mA

AC Input Power Rating

8.0 Watts

Test Switch

Single Pole

Battery

High-Temperature, Maintenance-Free
Nickel-Cadmium Battery
7- to 10-Year Life Expectancy

Battery Charging Current

280 mA

Recharge Time

24 Hours

Charging Indicator Light

LED

Temperature Rating (Ambient)

0°C to +55°C (32°F to 131°F)

Dimensions

13.1" x 2.6" x 1.5"
(333 mm x 67 mm x 38 mm)
Mounting Center 12.7" (323 mm)

Weight

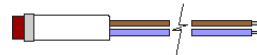
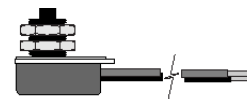
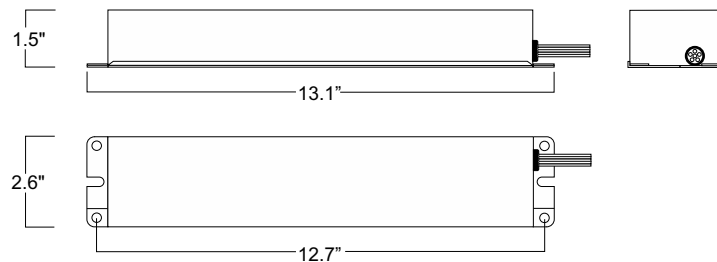
3.5 lbs. (1.6 kg)

Benefits:

- For Class I, Division 2 Fixtures
- Universal input (120 through 277 VAC, 50/60 Hz)
- One-lamp emergency illumination
- End-of-Lamp-Life Compatible

Dimensions

13.1" x 2.6" x 1.5" (mounting center - 12.7")



A test switch and charging indicator light is provided.



BHD55U

Flourescent Emergency Ballast, Hazardous Locations

Table 1 Lamp Compatibility

LAMP DIAMETER	BASE	WATTAGE (Length)	NO. of LAMPS (EMERGENCY)
T5/HO	Miniature Bipin	24-54 W (2'-4')	1
T5	Miniature Bipin	14-28 W (2'-4')	1
Long Compact	4-pin (2G11)	36-55 W	1
T8	Bipin	17-40 W (2'-5')	1
T8/HO	Bipin	44-55W (4'-5')	1

Table 2 Initial Lumen Output

LAMP	LUMENS
	1 Lamp
FP54, F54T5/HO	1200
FP39, F39T5/HO	1075
FP24, F24T5/HO	650
FP28, F28T5	1175
F32T8, (4')	925
F48T8/HO (4', 44 W)	950
F60T8/HO (5', 55 W)	1000
PL-L 50W, F50BX/RS, FT55DL	950
PL-L 40W, F40/30BX, FT40DL/RS	900
PL-L 36W, F39/36BX, FT36DL	850

Partial listing of lamps operated.

APPLICATION

The BHD55U Universal Input emergency ballast works in conjunction with an AC ballast to convert fluorescent fixtures into emergency lighting. The emergency ballast handles a wide range of input voltages and frequencies and consists of a high-temperature nickel-cadmium battery, charger, hermetically sealed relays and electronic circuitry in one compact case. The BHD55U can be used with one 14 - 54 W (2'-4') T5 bipin, 22 - 40 W T5 circular, 36 - 55 W (4-pin) long compact or 17 - 55 W (2'-5') T8 fluorescent lamp. It is also compatible with most 120 through 277 VAC (50 or 60 Hz) one-, two-, three- and four-lamp electronic, standard, energy-saving and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. The BHD55U is **UL Component Recognized for factory installation only** and is suitable for use in Class I, Division II type fixtures. It is suitable for indoor and damp locations and for sealed & gasketed fixtures, including fixtures rated for wet locations. These fixtures should be tested by the fixture manufacturer in accordance to the standards pertaining to Class I, Division II applications. This unit is not suitable for air handling heated air outlets. For information about specific lamp and ballast compatibility, please call the factory. Recommended applications include: hazardous locations; line voltages from 120 - 277 VAC (50 or 60 Hz); drilling rigs where generators are the primary source of power; and other applications requiring higher tolerance of line voltage variation or harmonic distortion.

OPERATION

When AC power fails, the BHD55U immediately switches to the emergency mode, operating one lamp at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the BHD55U automatically returns to the charging mode and, using a patented circuit, delays AC ballast operation for approximately 3 seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits.

INSTALLATION

The BHD55U does not affect normal fixture operation and may be used with either a switched or unswitched fixture. If a switched fixture is used, an unswitched hot must be connected to the emergency ballast. The emergency ballast must be fed from the same branch circuit as the AC ballast. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C. Please note: Test switch supplied is not rated for hazardous locations.

EMERGENCY ILLUMINATION

The BHD55U produces 1200 lumens initial light output.

SPECIFICATION

Emergency lighting shall be provided by using a hazardous location fluorescent fixture equipped with a Philips Bodine BHD55U Universal Input fluorescent emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger, hermetically sealed

relays and electronic circuitry contained in one 13.1" x 2.6" x 1.5" metal case. A solid-state charging indicator light to monitor the charger and battery, a single-pole test switch and installation hardware shall be provided. The BHD55U shall be suitable for use in Class I, Division II type fixtures. The emergency ballast shall be capable of operating one 14-54 W (2'-4') T5 bipin, 22-40 W T5 circular, 36-55 W (4-pin) long compact and 17-55 W (2'-5') T8 bipin fluorescent lamp in the emergency mode for a minimum of 90 minutes. It shall be suitable for indoor and damp locations and for sealed & gasketed fixtures, including fixtures rated for wet locations. The BHD55U shall have 8 Watts of input power and a 24 Watt-hour battery capacity and shall comply with emergency standards set forth by the current NEC. The emergency ballast shall be UL Component Recognized for factory installation with a hazardous location fixture.

WARRANTY

Model BHD55U is warranted for three (3) full years from date of purchase. Please see detailed warranty information on our web site.

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