

B94GU/ B94CGU

EMERGENCY LIGHTING EQUIPMENT

PHILIPS
bodine

Replaces model B94G or B94CG

Universal input voltage:

One-lamp emergency illumination for 4-pin fluorescent lamps (without integral starter); Suitable for low mercury lamps

A Division Of Philips Electronics North America Corporation

Product Summary

UL LISTED FOR US AND CANADA

Factory or Field Installation
(Indoor and Damp)



Illumination Time

90 Minutes

Initial Light Output

300 - 750 Lumens

Full Warranty

2 Years (NOT pro-rata)

Universal Input Voltage

120 Through 277 VAC, 50 or 60 Hz

AC Input Current

50 mA

AC Input Power Rating

4.0 Watts

Test Switch

Single Pole

Battery

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

Battery Charging Current

300 mA

Recharge Time

24 Hours

Charging Indicator Light

LED

Temperature Rating (Ambient)

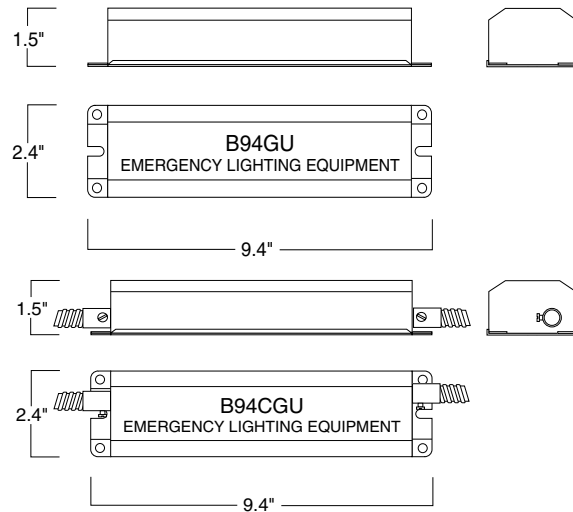
0°C to + 50°C
(32°F to 122°F)

Dimensions

9.4" x 2.4" x 1.5"
(238 mm x 60 mm x 38 mm)
2' (610 mm) Flex Conduit Each End (for B94CGU)
Mounting Center 8.9" (226 mm)

Weight

3 lbs. (1.4 kg)



APPLICATION

The B94GU emergency ballast works in conjunction with an AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency ballast consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one compact red case. The B94GU can be used with one 18 - 42 W (4-pin) twin, quad or triple twin-tube compact. It is also compatible with most 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 B94GU is suitable for indoor and damp locations and for sealed & gasketed fixtures. It is not suitable for air handling heated air outlets or wet or hazardous locations. For information about specific lamp and ballast compatibility, please call the factory.

OPERATION

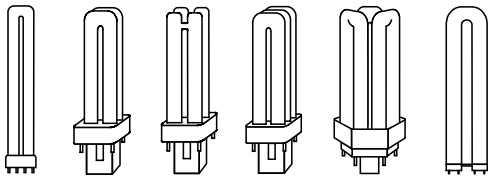
When AC power fails, the B94GU immediately switches to the emergency mode, operating one lamp at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the emergency ballast automatically returns to the charging mode and, using a patented circuit, delays AC ballast operation for approximately three seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits.

INSTALLATION

The B94GU 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. The B94GU may be installed inside or on top of the fixture. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C. For simple visual inspection of the charging indicator light and easy operational testing, the test/monitor plate can be installed near the fixture wall switch. It may also be installed in the ceiling near the fixture to ensure an unobtrusive installation.

UL and CODE COMPLIANCE

The B94GU has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment," and CSA C22.2 No. 141, "Emergency Lighting Equipment." The B94GU is UL Listed for factory or field installation. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC) and UL 90-minute requirements.



B94GU

EMERGENCY LIGHTING EQUIPMENT

**Universal input voltage:
One-lamp emergency illumination for
4-pin fluorescent lamps (without integral
starter); Suitable for low mercury lamps**

EMERGENCY ILLUMINATION

Depending on the wattage and type of lamp selected, the B94GU produces 300 to 750 lumens initial emergency light output (see Table 1). During emergency operation, one lamp is illuminated, even if installed with a multi-lamp AC ballast.

SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a Philips Bodine B94GU emergency ballast. The emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 9 3/8" x 2 3/8" x 1 1/2" red metal case. The B94CGU is provided with 2' of flexible conduit at each end. A test/monitor plate with a solid-state charging indicator light to monitor the charger and battery, a single-pole test switch and installation hardware shall be provided. The emergency ballast, using a patented circuit, shall delay AC ballast operation for approximately 3 seconds to prevent false tripping of AC ballast end-of-lamp-life shutdown circuits. The emergency ballast shall be capable of operating one _____ fluorescent lamp at _____ lumens (see Table 1) initial light output in the emergency mode for a minimum of 90 minutes. It shall be suitable for indoor and damp locations and for sealed & gasketed fixtures. The B94GU shall have 4.0 Watts of input power and a 14.4 Watt-hour battery capacity and shall comply with emergency standards set forth by the current NEC and CEC. The emergency ballast shall be UL Listed for installation inside or on top of the fixture and shall be warranted for a full two years from date of purchase.

INSTALLATION OPTIONS AND ORDERING CODES

The B94CGU can be ordered in several mounting configurations and with different test switch/LED options. Please consult the Ordering Code Sheet to determine which configuration and test switch option best meet your requirements.

WARRANTY

Model B94GU is warranted for two (2) full years from date of purchase. This warranty covers only properly installed Philips Bodine emergency ballasts used under normal conditions. For the warranty period, Philips Emergency Lighting will, at its option, repair or replace without charge a defective emergency ballast, provided it is returned to the factory transportation prepaid and our inspection determines it to be defective under terms of the warranty. Repair or replacement, as stated above, shall constitute the purchaser's exclusive warranty, which does not extend to transportation, installation, labor or any other charges; nor does it apply to any equipment of another manufacturer used in conjunction with the emergency ballast.

Table 1 - Initial Lumen Output

LAMP (4-PIN)	LUMENS
	1 Lamp
PL-T 42 W/4P, Dulux T/E 42W	750
PL-T 32 W/4P, Dulux T/E 32 W	700
PL-T 26 W/4P, Dulux T/E 26 W, F26TBX/4P	525
PL-T 18 W/4P, Dulux T/E 18 W, F18TBX/4P	450
PL-C 26 W/4P, Dulux D/E 26 W, F26DBX/4P	525
PL-C 18 W/4P, Dulux D/E 18 W, F18DBX/4P	400
PL-L 40 W, Dulux L 40 W, F40/30BX/4P	650
PL-L 36 W, Dulux L 39 W, F39/38X/4P	600
PL-L 24 W, Dulux L 27 W, F27/24BX/4P	425
PL-C 18 W, Dulux L 18 W, F18 BX	300
F382D/4P	625