

B84CG

EMERGENCY LIGHTING EQUIPMENT

PHILIPS bodine

A Division Of Philips Electronics North America Corporation

**Specification grade;
One-lamp emergency illumination;
Suitable for low mercury lamps**

Product Summary

UL LISTED

Factory or Field Installation
(Indoor and Damp)



Illumination Time

90 Minutes

Initial Light Output

Up to 1250 Lumens

Full Warranty

2 Years (NOT pro-rata)

Dual Input Voltage

120/277 VAC, 60 Hz

AC Input Current

300 mA

AC Input Power Rating

3.5 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 +50°C
(32°F to 122°F)

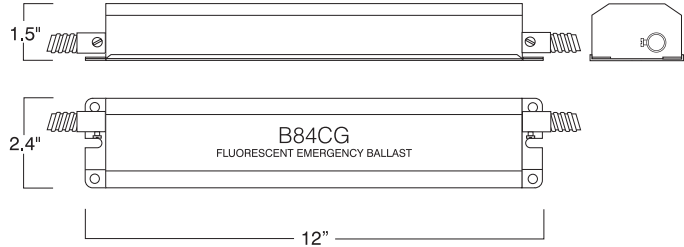
Dimensions

12.0" x 2.4" x 1.5"
(305 mm x 60 mm x 38 mm)
2' (610 mm) Flex Conduit Each End
Mounting Center 11.5" (292 mm)

Weight

4.3 lbs. (1.95 kg)

Emergency ballasts can be modified to accommodate special voltages, frequencies and longer run times.



APPLICATION

The B84CG 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 B84CG can be used with one 13 - 42 W twin, quad or triple twin-tube lamp, one 22 - 40 W T5 circline or one 18 - 39 W long compact fluorescent lamp, including low mercury and amalgam lamps. It is also compatible with most electronic, magnetic and dimming single- and multi-lamp ballasts. The B84CG is suitable for indoor and damp locations. 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 B84CG 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 3 seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits.

INSTALLATION

The B84CG does not affect normal fixture operation. It may be used with either a switched or unswitched fixture. If a switched fixture is used, an unswitched hot lead must be connected to the emergency ballast. The emergency ballast must be fed from the same branch circuit as the AC ballast. The B84CG may be installed on top of or remote from the fixture. The B84CG may be remotely installed up to half the distance the AC ballast manufacturer recommends removing the AC ballast from the lamp or up to 6 feet, whichever is less. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C.

UL and CODE COMPLIANCE

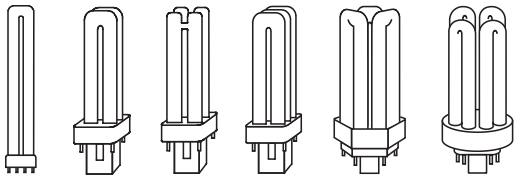
The B84CG has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment," and is UL Listed for factory or field installation. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC) and UL 90-minute requirements.

Specifiers Reference

Project _____ Type _____ Model No. _____
Comments _____

L2000035

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EMERGENCY ILLUMINATION

Depending on the wattage and type of lamp selected, the B84CG produces up to 1250 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 B84CG emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 12" x 2 3/8" x 1 1/2" red metal case 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 flase tripping of AC ballast end-of-lamp-life shutdown circuits. The emergency ballast shall be capable of operating one _____ standard or low mercury 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. The B84CG shall have 3.5 Watts of input power and a 19.2 Watt-hour battery capacity and shall comply with emergency standards set forth by the current NEC. The emergency ballast shall be UL Listed for installation on top of or remote from the fixture and shall be warranted for a full two years from date of purchase.

WARRANTY

Model B84CG 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
F42QBX, Dulux T/E 42W	1250
REDUCED MERCURY 42W/4P	850
32 W/4P, F32TBX, Dulux T/E 32 W	1250
REDUCED MERCURY 32W/4P	1100
PL-T 26 W/4P, F26DBX, Dulux T/E 26 W	700
PL-T 18 W/4P, F18DBX, Dulux T/E 18 W	900
PL-T 13 W/4P, F13DBX, Dulux T/E 13 W	700
PL-L 36 W, PHILIPS	1100
F39/3BX, Dulux L 36 W	1250
PL-L 24 W, F27/24BX, Dulux L 27 W	800
PL-L 18 W, F18BX Dulux L 18 W	775
FC9T5, FPC22	700
FC12T5, FC12T5/HO, FPC40	1000

Partial Listing of Lamps Operated

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For the most current technical information and notices, please visit TechNotes on our website.