

B4CFG

Compact Lamp
Fluorescent Emergency Ballast

PHILIPS bodine

A Division Of Philips Electronics North America Corporation

**Specification grade;
One-lamp emergency illumination;
End-of-Lamp-Life Compatible;
For Damp Locations**

Product Summary

UL LISTED/CSA CERTIFIED
Factory or Field Installation
(Damp)



Illumination Time
90 Minutes

Initial Light Output
Up to 1250 Lumens @25°C

Full Warranty
5 Years (NOT pro-rata)

Dual Input Voltage
120/277 VAC, 60 Hz

AC Input Current
300 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
220 mA

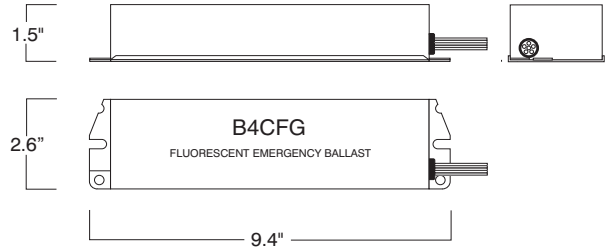
Recharge Time
24 Hours

Charging Indicator Light
LED

Temperature Rating (Ambient)
0°C to +50°C
(32°F to 122°F)

Dimensions
9.4" x 2.6" x 1.5"
(238 mm x 67 mm x 38 mm)
Mounting Center 8.9" (226 mm)

Weight
3.1 lbs. (1.4 kg)



APPLICATION

The B4CFG fluorescent 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 case. The B4CFG 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. It is also compatible with most one-, two-, three- and four-lamp electronic, standard, energy-saving and dimming AC ballasts. The B4CFG is suitable for indoor and damp locations and for sealed & gasketed fixtures, including fixtures rated for wet 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 B4CFG immediately switches to the emergency mode, operating one lamp at a reduced lumen output for a minimum of 90 minutes. When the 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 B4CFG 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 B4CFG 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.

UL and CODE COMPLIANCE

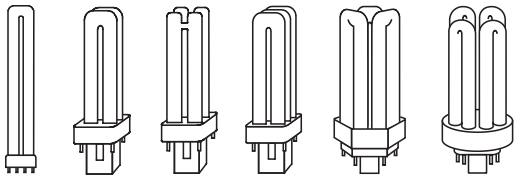
The B4CFG has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment," and by the Canadian Standards Association (CSA) in accordance with the standards set forth in C22.2 No. 141, "Unit Equipment for Emergency Lighting." The B4CFG is UL Listed and CSA Certified for factory or field installation. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC), National Building Code of Canada (NBC), National Fire Code of Canada (NFC) and UL 90-minute requirements.

Specifiers Reference

Project _____ Type _____ Model No. _____
Comments _____

L2000034

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EMERGENCY ILLUMINATION

Depending upon the wattage and type of lamp selected, the B4CFG produces up to 1250 lumens initial emergency light output (see Table 2) at 25°C. 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 B4CFG emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 9.4" 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 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 (see Table 1) at _____ lumens (see Table 2) 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, including fixtures rated for wet locations. The B4CFG shall have 4 Watts of input power and a 19.2 Watt-hour battery capacity and shall exceed emergency standards set forth by the current NEC. The B4CFG shall be UL Listed and CSA certified for installation inside or on top of the fixture and shall be warranted for a full five years from date of purchase.

WARRANTY

Model B4CFG is warranted for five (5) 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 - Lamp Compatibility

| LAMP | BASE | WATTAGE |
|--|------------------------|---------|
| TWIN/QUAD/ TRIPLE TWIN/ QUADRUPLE TWIN-TUBE COMPACT | 4-PIN (G24q, GX24q) | 13-42 W |
| LONG COMPACT | 4-PIN (2G11) | 18-39 W |
| T5 CIRCLINE | 4-PIN (2GX13) | 22-40 W |

Table 2- Initial Lumen Output

| LAMP | LUMENS |
|------------------------------------|--------|
| F42QBX, DULUX T/E 42W | 1250 |
| REDUCED MERCURY 42W/4P | 850 |
| 32W/4P, F32TBX, DULUX T/E 32W | 1250 |
| REDUCED MERCURY 32W/4P | 1100 |
| PL-T 26W/4P, F26TBX, DULUX T/E 26W | 700 |
| PL-T 18W/4P, F18TBX, DULUX T/E 18W | 900 |
| PL-T 13W/4P, F13TBX, DULUX T/E 13W | 700 |
| PL-L 36W, PHILIPS | 1100 |
| F39/36BX, DULUX L 36W | 1250 |
| PL-L 24W, F27/24BX, DULUX L 27W | 800 |
| PL-L 18W, F18BX, DULUX L 18W | 775 |
| FC9T5, FPC22 | 700 |
| FC12T5, FC12T5/HO, FPC40 | 1000 |

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