

B75C

EMERGENCY LIGHTING EQUIPMENT

PHILIPS bodine

A Division Of Philips Electronics North America Corporation

**One-lamp emergency illumination;
For higher wattage 4-pin compact lamps
(without integral starters); Suitable for
low mercury (green) lamps**

Product Summary

UL LISTED

Factory or Field Installation
(Indoor and Damp)



Illumination Time

90 Minutes

Initial Light Output

600 - 1300 Lumens

Full Warranty

5 Years (NOT pro-rata)

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

300 mA

Recharge Time

24 Hours

Charging Indicator Light

LED

Temperature Rating (Ambient)

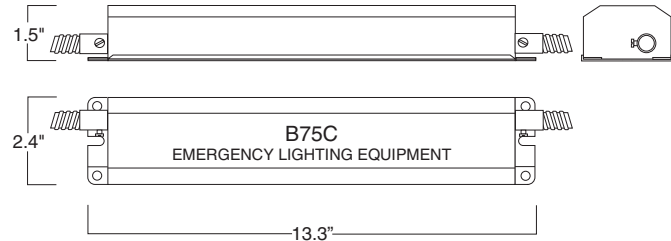
0°C to +50°C
(32°F to 122°F)

Dimensions

13.3" x 2.5" x 1.5"
(338 mm x 63 mm x 38 mm)
2' (610 mm) Flex Conduit Each End
Mounting Center 12.8" (325 mm)

Weight

3.5 lbs. (1.6 kg)



APPLICATION

The B75C 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 B75C can be used with one 32 - 70 W (4-pin) compact fluorescent lamp without an integral starter, including low mercury and amalgam lamps. It is also compatible with most single- and multi-lamp electronic and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. This emergency ballast 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 contact the factory.

OPERATION

When AC power fails, the B75C 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 B75C 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 B75C 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 lead must be connected to the emergency ballast. The emergency ballast must be fed from the same branch circuit as the AC ballast. The B75C may be installed on top of or remote from the fixture. The emergency ballast 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. 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. The test/monitor may also be installed in the ceiling near the fixture to ensure an unobtrusive installation. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C.

UL AND CODE COMPLIANCE

The B75C 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.

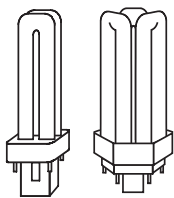
For applications without conduit, order Model B75.

Specifiers Reference

Project _____ Type _____ Model No. _____
Comments _____

L2000033

03/21/11 © Philips Emergency Lighting
P.O. Box 460 Collierville, TN USA 38027-0460
Sales 800-223-5728 FAX 901-853-5009
Tech. Support 888-263-4638
www.philips.com/bodine



B75C

EMERGENCY LIGHTING EQUIPMENT

**One-lamp emergency illumination;
For higher wattage 4-pin compact lamps
(without integral starters);
Suitable for low mercury (green) lamps**

EMERGENCY ILLUMINATION

Depending on the wattage and type of lamp selected, the B75C produces 600 to 1300 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 B75C emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 13.3" x 2.5" x 1.5" 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 false tripping of AC ballast end-of-lamp-life shutdown circuits. The emergency ballast shall be capable of operating one standard or low mercury (green) 4-pin compact 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 B75C shall have 4.0 Watts of input power and a 24.0 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 five years from date of purchase.

WARRANTY

Model B75C 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 - Initial Lumen Output

LAMP (4-PIN)	LUMENS
F70 Q BX/4P, DULUX T/E 70 W	1300
F57 Q BX/4P, DULUX T/E 57 W	1150
PL-T 42 W/4P, DULUX T/E 42W, F42 QBX/4P	800
PL-T 32 W/4P, DULUX T/E 32W, F32 QBX/4P	600

L2000033

03/21/11 © Philips Emergency Lighting
P.O. Box 460 Collierville, TN USA 38027-0460
Sales 800-223-5728 FAX 901-853-5009
Tech. Support 888-263-4638
www.philips.com/bodine

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