

B54

Fluorescent Emergency Ballast

PHILIPS bodine

Four-hour emergency illumination

A Division Of Philips Electronics North America Corporation

Product Summary

UL LISTED

Factory or Field Installation

Illumination Time

Four Hours

Initial Light Output

225 - 450 Lumens

Full Warranty

5 Years (NOT pro-rata)

Dual Input Voltage

120/277 VAC, 60 Hz

AC Input Current

280 mA

AC Input Power Rating

4.0 Watts

Test Switch

Double 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)

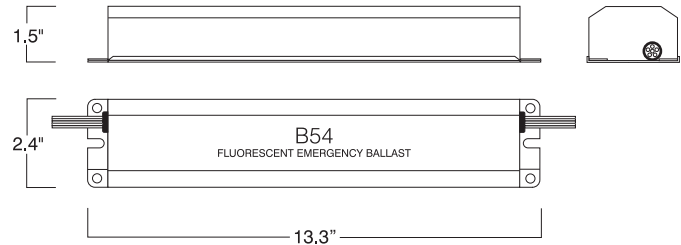
0°C to +55°C
(32°F to 131°F)

Dimensions

13.3" x 2.4" x 1.5"
(339 mm x 60 mm x 38 mm)
Mounting Center 12.8" (325 mm)

Weight

3.4 lbs. (1.5 kg)



APPLICATION

The B54 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 red case. The B54 can be used with most 16 - 40 W (2' - 4') T8, T9, T10 or T12 (including T12 HO) lamps, 18 - 28 W (4-pin) twin, quad and triple twin-tubes and 18 - 39 W rapid-start long compact lamps. 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 B54 is suitable for indoor locations. It is not suitable for air handling heated air outlets or wet, damp or hazardous locations. For information about specific lamp and ballast compatibility, please call the factory. Recommended applications include: hospitals, nursing homes, health care facilities and high rise buildings whose occupants need longer egress illumination times to exit the building.

OPERATION

When AC power fails, the B54 immediately switches to the emergency mode, operating one lamp at a reduced lumen output for a minimum of four hours. When AC power is restored, the B54 automatically returns to the charging mode.

INSTALLATION

The B54 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 B54 may be installed inside, 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 50 feet, whichever is less. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C.

UL and CODE COMPLIANCE

The B54 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. Four-hour emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC) and UL requirements. The B54 may also meet local code requirements for longer illumination time.

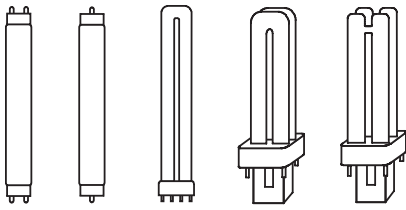
Emergency ballasts can be modified to accommodate special voltages, frequencies and longer run times.

Specifiers Reference

Project _____ Type _____ Model No. _____
Comments _____

L2000014

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EMERGENCY ILLUMINATION

Depending on the wattage and type of lamp selected, the B54 produces 225 to 450 lumens initial emergency light output (see Table 1). During emergency operation, one lamp is illuminated, even if installed with a multi-lamp ballast.

SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a Philips Bodine B54 emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 13 3/8" x 2 3/8" x 1 1/2" red metal case. A solid-state charging indicator light to monitor the charger and battery, a double-pole test switch and installation hardware shall be provided. The emergency ballast shall be capable of operating one 16 - 40 W (2' - 4') T8, T9, T10 or T12 fluorescent lamp; one 18 - 28 W (4-pin) twin, quad or triple twin-tube; or one 18 - 39 W rapid-start long compact fluorescent lamp at _____ lumens (see Table 1) initial light output in the emergency mode for a minimum of four hours. It shall be suitable for indoor locations. The B54 shall have 4 Watts of input power and a 24 Watt-hour battery capacity and shall exceed emergency standards set forth by the current NEC. The emergency ballast shall be UL Listed for installation inside, on top of or remote from the fixture and shall be warranted for a full five years from date of purchase.

WARRANTY

Model B54 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	LUMENS
F032 T8	425
F40T12	225
F39BX, PL-L36W	450

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