

# LP600

EMERGENCY LIGHTING EQUIPMENT

# PHILIPS bodine

A Division Of Philips Electronics North America Corporation

**Specification-grade, high-lumen,  
low-profile emergency ballast for standard  
and high-output T5 and T8 lamps  
End-of-lamp-life compatible**

## Product Summary

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



**Illumination Time**  
90 Minutes

**Initial Light Output**  
600 - 1325 Lumens @ 25°C

**Full Warranty**  
5 Years (NOT pro-rata)

**Dual Input Voltage**  
120/277 VAC, 60 Hz

**AC Input Current**  
180 mA

**AC Input Power Rating**  
3.0 Watts

**Test Switch**  
Single Pole

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

**Battery Charging Current**  
165 mA

**Recharge Time**  
24 Hours

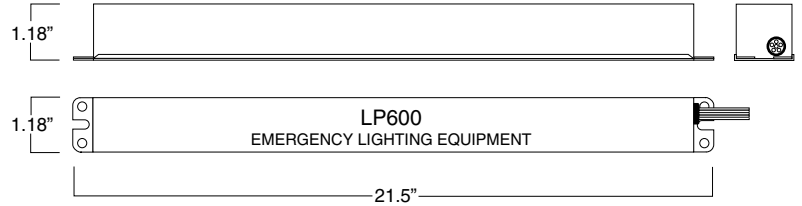
**Charging Indicator Light**  
LED

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

**Dimensions**  
21.5" L x 1.18" W x 1.18" H  
(546 mm x 30 mm x 30 mm)  
Mounting Center 21.1" (536 mm)

**Weight**  
3.3 lbs. (1.5 kg)

**Product Features**  
Higher Lumen Output,  
Low-Profile Design for Ballast  
Channel Installation in Space-Limited Fixtures.



## APPLICATION

The LP600 low-profile emergency ballast works in conjunction with a low-profile or standard-size AC ballast to convert new or existing standard or high-output T5 and T8 fluorescent fixtures into unobtrusive emergency lighting. The emergency ballast consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one compact case. The LP600 can be used with one 14 - 54 W (2' - 4') standard or high-output T5; 17 - 55 W (2' - 5') standard or high-output T8; or 36 - 55 W (4-pin) long compact fluorescent lamp (see Table 1). 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 LP600 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 contact the factory. Recommended applications include: emergency lighting for pendant, cove, recessed indirect/direct, surface-mount and architectural lighting commonly used in office, hospitality, health care, retail and educational facilities.

## OPERATION

When AC power fails, the LP600 immediately switches to the emergency mode, operating one lamp at high 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 AC ballast end-of-lamp-life shutdown circuits.

## INSTALLATION

The LP600 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 LP600 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, CSA and CODE COMPLIANCE

The LP600 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 LP600 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.

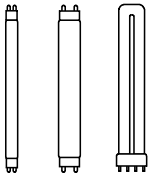
*Emergency ballasts can be modified to accommodate special voltages, frequencies and longer run times.*

## Specifiers Reference

Project \_\_\_\_\_ Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Comments \_\_\_\_\_

L2000041

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## EMERGENCY ILLUMINATION

Depending on the wattage and type of lamp selected, the LP600 produces 600 to 1325 lumens initial emergency light output. 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 LP600 low-profile emergency ballast. The LP600 shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 21.5" x 1.18" x 1.18" galvanized steel 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 three 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 2) initial emergency 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 LP600 shall have 3 Watts of input power and an 21.0 Watt-hour battery capacity and shall exceed emergency standards set forth by the current NEC. The emergency ballast 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 LP600 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 DIAMETER	BASE	WATTAGE (Length)	NO. of LAMPS (EMERGENCY)
T5/HO	Miniature Bipin	24-54 W (2'-4')	1
T5	Miniature Bipin	14-28 W (2'-4')	1
Long Compact	4-pin (2G11)	36-55 W	1
T8	Bipin	32 W (4')	1
		40 W (5')	1
T8/HO	Bipin	44 W (4')	1

Table 2 - Initial Lumen Output

LAMP	LUMENS
	1 Lamp
FP54, F54T5/HO	1250
FP39, F39T5/HO	1125
FP24, F24T5/HO	725
FP28, F28T5	1250
FP21, F21T5	1025
FP14, F14T5	750
FP17T8	650
FP25T8	750
F32T8, (4')	1100
F40T8 (5')	1325
F40T8/HO (4', 44 W)	1275
PL-L 50W, F50BX/RS, FT55DL	1050
PL-L 40W, F40/30BX, FT40DL/RS	925
PL-L 36W, F39/36BX, FT36DL	900

*Partial listing of lamps operated.*

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