bodine

Emergency Driver

Linear Fluorescent

LP550

Low-Profile for Space-Limited Fixtures
For Standard and HO T5 and T8 Lamps
End-of-Lamp-Life Compatible

Project:
Location:
Cat.No:
Type:
Qty:
Notes:

Product order number:
LP550M

12NC number:
913710839502

Specifications

UL Listed to UL 924
UL 924 Emergency Lighting Equipment
Factory or Field Installation (Indoor and Damp)

Illumination Time
90 Minutes

Initial Light Output
390-700 Lumens @ 25°C

Dual Input Voltage
120/277 VAC, 60 Hz

AC Input Current
190 mA

AC Input Power Rating
2.6 Watts

Test Switch
Single Pole

Charging Indicator Light
LED

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

Recharge Time
24 Hours

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

Dimensions
18.5" x 1.18" x 1.18"(470 mm x 30 mm x 30 mm)
Mounting Center 18.1" (460 mm)

Weight
2.3 lbs (1.0 kg)

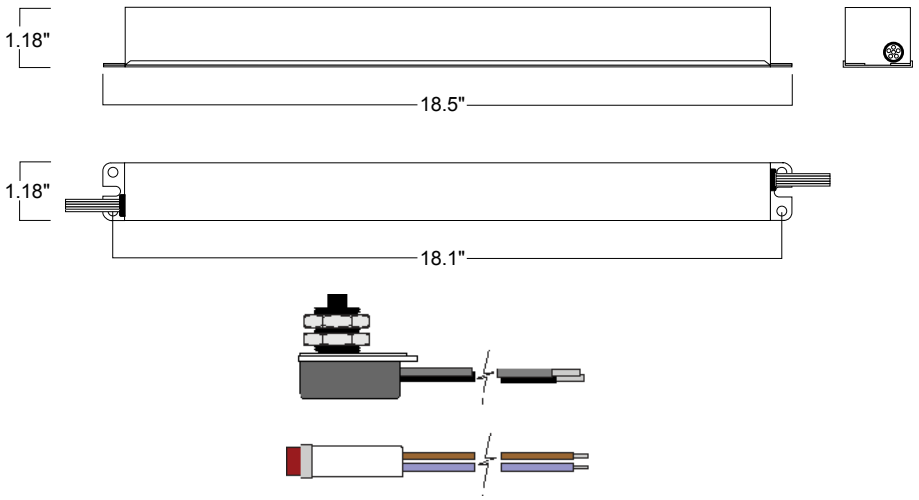
Warranty
5 Years (NOT pro-rata)

Benefits

- Low-Profile case
- Emergency mode lumen output up to 700 lumens
- End-of-Lamp-Life Compatible

Dimensions

18.5" x 1.18" x 1.18"
Mounting Center - 18.1"



A separate test switch and charging indicator light are provided.

LP550

Fluorescent Emergency Ballast, Low-Profile for Space-Limited Fixtures

Application

The LP550 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 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 LP550 can be used with one 21-28 W standard or 24-54 W high-output T5 (2'-4'); one 32 W (4'), 40 W (5') or 44 W HO (4') T8; or one 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 LP550 is suitable for indoor and damp locations and for sealed and 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. Recommended applications include: emergency lighting for pendant, cove, recessed indirect/direct, surfacemount and architectural lighting commonly used in office, hospitality, health care, retail and educational facilities.

Operation

When AC power fails, the LP550 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 three seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits.

Installation

The LP550 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 must be connected to the emergency ballast. The emergency ballast must be fed from the same branch circuit as the AC ballast. The LP550 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.

Emergency Illumination

Depending on the wattage and type of lamp selected, the LP550 produces 390 to 700 lumens initial emergency light output (see Table 2). 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 Bodine LP550 low-profile emergency ballast.

The LP550 shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 18.5" 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-oflamp- life shutdown circuits.
The emergency ballast shall be capable of operating one _____ fluorescent lamp 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 and gasketed fixtures, including fixtures rated for wet locations. The LP550 shall have 2.6 Watts of input power and a 15.0 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 or on top of the fixture.

Warranty

Model LP550 is warranted for five (5) full years from date of purchase. Please see detailed warranty information on our website.

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	21-28 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 Lumen Output

LAMP	LUMENS
	1 Lamp
FP54, F54T5/HO 700	700
FP39, F39T5/HO 620	620
FP24, F24T5/HO 390	390
FP28, F28T5 700	700
FP21, F21T5 620	620
F32T8, (4') 635	635
F40T8 (5') 570	570
F40T8/HO (4', 44 W) 470	470
PL-L 50W, F50BX/RS, Dulux L 55W 510	510
PL-L 40W, F40/30BX, Dulux L 40W 625	625
PL-L 36W, F39/36BX, Dulux L 36W 610	610

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