

PHILIPS

Emergency Ballast

T8 LED & Linear
Fluorescent

PTA50



Emergency lighting **for** **fluorescent and TLED** **applications**

Philips PTA50 emergency ballast is designed to work with linear fluorescent and Type A TLED applications. The PTA50 operates one lamp in emergency mode and, depending on the wattage and lamp selected, produces up to 1400 lumens initial emergency light output. It is UL Listed for the U.S. and Canada and meets CEC Title 20 efficiency standards.

PTA50 Emergency Ballast Linear Fluorescent

Benefits

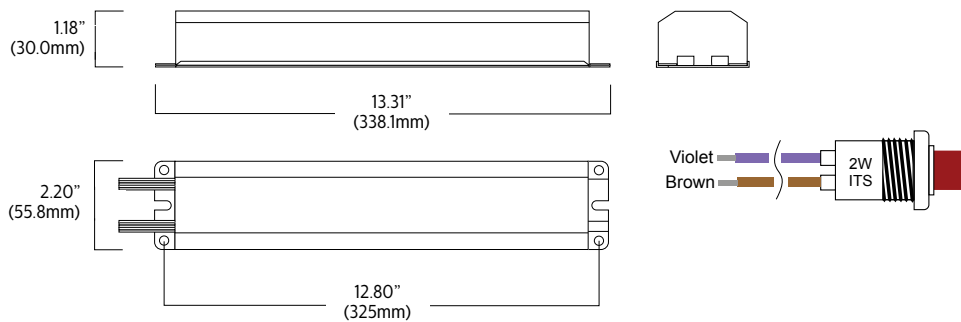
- Compatible with 7W - 16.5W Type A TLED lamps (including LED T8 InstantFit)
- Meets CEC Title 20 efficiency standards
- Low profile case (1.18"H)
- Universal Input (120 through 277 VAC, 50/60Hz)

Model Numbers

Product Order Number	12 NC Number
PTA50	913702489601

Dimensions

13.31" x 2.20" x 1.18" (338.1mm x 55.8mm x 30.0mm)
 Mounting Center 12.8" (325mm)



An illuminated test switch/charging indicator light is provided.

Specifications

UL Listed for US and Canada	Factory or Field Installation (Indoor and Damp)
Illumination Time	90 Minutes
Initial Light Output	Up to 1400 Lumens
Full Warranty	5 years (NOT pro-rata)
Universal Input Voltage	120 Through 277 VAC, 50 or 60 Hz
AC Input Current	60 mA
AC Input Power Rating	5.0 Watts
Test Switch	2W-ITS (2-wire Illuminated Test Switch)
Battery	High-Temperature, Maintenance-Free Nickel-Cadmium Battery 7- to 10-Year Life Expectancy
Battery Charging Current	180 mA
Recharge Time	24 Hours
Charging Indicator Light	LED
Temperature Rating (Ambient)	0°C to +50°C (32°F to 122°F)
Dimensions	13.31" x 2.20" x 1.18" (338.07 mm x 55.88 mm x 29.97 mm) Mounting Center 12.79" (325 mm)
Weight	2.78 lbs. (1.26 kg)

PTA50 Emergency Ballast Linear Fluorescent

Specifications

Application

The PTA50 emergency ballast works in conjunction with an AC ballast to convert new or existing fluorescent or TLED fixtures into emergency lighting. The emergency ballast handles a wide range of input voltages and frequencies and consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one compact metal case. PTA50 operates one lamp in emergency mode (see Table 1). It is compatible with most single- and multi-lamp electronic and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. The PTA50 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. Recommended applications include: international line voltages from 120 through 277 VAC (50 or 60 Hz); drilling rigs where generators are the primary source of power; and other applications requiring higher tolerance of line voltage variation or harmonic distortion.

Operation

When AC power fails, the PTA50 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 three seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits.

Installation

The B50CT 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 PTA50 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.

Emergency Illumination

Depending on the wattage and lamp selected, the PTA50 produces up to 1400 lumens initial emergency light output (see Table 2).

Specification

Emergency lighting shall be provided by using a fluorescent or TLED fixture equipped with a Bodine PTA50 emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 13.31" x 2.2" x 1.18" metal case. A solid-state charging indicator light to monitor the charger and battery, a 2-wire illuminated 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] _____ 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 PTA50 shall operate at any line voltage from 120 through 277 VAC at frequencies of 50 or 60 Hz. The PTA50 shall have 5.0 Watts of input power and shall exceed emergency standards set forth by the current NEC and meets Title 20 CEC (California Energy Commission) standards. The emergency ballast shall be UL Listed for factory or field installation inside, on top of or remote from the fixture.

Warranty

Model PTA50 is warranted for five (5) full years from date of purchase. Please see detailed warranty information on our web site.

Table 1 Lamp Compatibility

Lamp (Diameter)	Base Type	Wattage (Length)	No. of Lamps (Emergency)
(1", 1¼", 1½") T8, T12	Single or Bipin	17 - 40 W (2'-4')	1
LONG COMPACT	4-PIN (2G11)	18 - 39 W	1
		40 - 55 W	1
TWIN/QUAD/TRIPLE TWIN-TUBE COMPACT	4-PIN (G24q, Gx24q)	13 - 42 W	1
T5 & T5 HO	MINIATURE BIPIN	14 - 54 W (2'-4')	1
	HO CIRCLINE	22 - 55 W	1
Type A TLED lamps (including Philips LED T8 InstantFit) ¹	Bipin	7 - 16.5 W	1

1. Please see www.philips.com/tled for complete ballast compatibility guide (PLT-16118CR).

Table 2 Initial Lumen Output

Lamp	Lumens
F54T5/HO	1400
1xF32T8	1130
TL5C22W/840 Circline	730
TL5C55W/840 Circline	985
PL-L 40W/830/4P	1190
PL-L 55W/840/4P	1220
TLED T8 16.5W	1140



© 2021 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.



Signify North America Corporation
200 Franklin Square Drive,
Somerset, NJ 08873
Telephone 855-486-2216

Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone 800-668-9008

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.