

PEL12

EMERGENCY LIGHTING EQUIPMENT

PHILIPS

AC Output

One-lamp operation; T5 and T8

Low-Profile

End-of-lamp-life compatible

A Division Of Philips Electronics North America Corporation

Product Summary

UL LISTED FOR US AND CANADA

Factory or Field Installation
(Indoor and Damp)



Illumination Time

90 Minutes

Initial Light Output

Up to 1300 Lumens

Full Warranty

5 Years (NOT pro-rata)

Dual Voltage

120 or 277 VAC, 60 Hz

AC Input Current

210 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

150 mA

Recharge Time

24 Hours

Charging Indicator Light

LED

Temperature Rating (Ambient)

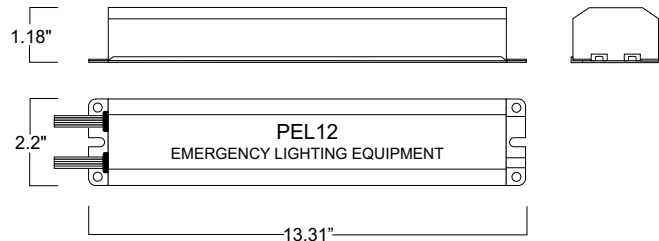
0°C to +50°C
(32°F to 122°F)

Dimensions

13.31" x 2.2" x 1.18"
(338.1 mm x 55.88 mm x 29.97 mm)
Mounting Center 12.8" (325 mm)

Weight

2.4 lbs. (1.1 kg)



APPLICATION

The PEL12 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 galvanized metal case. The PEL12 can be used with most 2' through 4' (17 W - 54 W) single pin or bipin fluorescent lamps, including standard, energy saving, HO, VHO, circline, U-shaped and rapid-start (4-pin) long compact fluorescent lamps. Also operates one Philips LED T8 InstantFit lamp: 9290002840, 9290002841, 9290002842, 9290002862, 9290002880, 9290002881, 9290002882, 9290002883, 9290011183, 9290011184, 9290011185, 9290011186, 9290011179, 9290011180, 9290011181, 9290011182. PEL12 is optimized for one-lamp operation (see Table 1). 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. The PEL12 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.

OPERATION

When AC power fails, the PEL12 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 delays AC ballast operation for approximately three seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits.

INSTALLATION

The PEL12 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 PEL12 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 PEL12 has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment," and CSA C22.2 No. 141, "Emergency Lighting Equipment." The PEL12 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.

Specifiers Reference

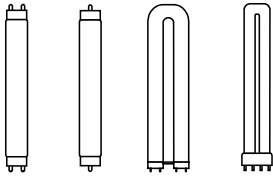
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Tech. Support 888-263-4638

Project _____ Type _____ Model No. _____

Comments _____



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AC Output
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EMERGENCY ILLUMINATION

The PEL12 produces up to 1300 lumens initial emergency light output (see Table 2).

SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a Philips, PEL12 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" galvanized metal case. A solid-state charging indicator light to monitor the charger and battery, a 2W-ITS and installation hardware shall be provided. The emergency ballast 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 (see Table 1) up to 1300 lumens (see Table 2) initial light output in the emergency mode for a minimum of 90 minutes. It is suitable for indoor and damp locations and for sealed & gasketed fixtures, including fixtures rated for wet locations. The PEL12 shall operate at 120 or 277 VAC at, 60 Hz. The PEL12 shall have 5.0 Watts of input power and a 21 Watt-hour battery capacity and shall exceed emergency standards set forth by the current NEC and CEC. 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 PEL12 is warranted for five (5) full years from date of purchase. This warranty covers only properly installed Philips emergency ballasts used under normal conditions. For the warranty period, Philips 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 TYPE	WATTAGE (Length)	NO. of LAMPS (EMERGENCYMODE)	BROWN CONNECTOR
T8	Bipin	17 - 32 W (2'-4')	1	CLOSED
LONG COMPACT	4-PIN (2G11)	24 - 36 W	1	CLOSED
		40 - 55 W		OPEN
QUAD/TRIPLE TUBE COMPACT	4-PIN	13 - 42 W	1	CLOSED
T5/HE	MINIATURE BIPIN	14 - 21 W	1	CLOSED
		28 W		OPEN
T5/HO	MINIATURE BIPIN	24 - 39 W	1	CLOSED
		54 W		OPEN
Philips LED T8 InstantFit	Bipin	8.5 - 16.5 W	1	CLOSED

Table 2 - Initial Lumen Output

LAMP	LUMENS
	1 Lamp
F14T5/HE	600
F21T5/HE	1100
F28T5/HE	1300
F24T5/HO	800
F39T5/HO	1200
F54T5/HO	1100
F17T8	550
F25T8	1100
F32T8	1100
F40T8	750
F96T12/HO 110W	1100
PL-L 24W	800
PL-L 36W	1100
PL-L 40W	900
PL-L 55W	850
PL-T 26W	950
PL-T 42W	1050
FC9T5 22W Circline	600
F12T5 40W Circline	850
FC12T5 55W Circline	800
Philips LED T8InstantFit 14.5 W	760
Philips LED T8InstantFit 16.5 W	1096

Test results @ 25°C, lamp-loads are new fresh model lamps.

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