

GEN3

Fluorescent Emergency Ballast

PHILIPS bodine

A Division Of Philips Electronics North America Corporation

Specification-grade interim lighting for generator backup systems; Up to 7900 lumens with two or three 32 W (4') T8 lamps

Product Summary

UL LISTED

Factory or Field Installation

Illumination Time

2 Minutes

Initial Light Output

4700 - 7900 Lumens

Full Warranty

5 Years (NOT pro-rata)

Dual Input Voltage

120/277 VAC, 60 Hz

AC Input Current

210 mA

AC Input Power Rating

5.0 Watts

Test Switch

Single Pole

Battery

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

Battery Charging Current

160 mA

Recharge Time

24 Hours

Charging Indicator Light

LED

Ballast Temp. Rating

0°C to + 55°C
(32°F to 131°F)

Dimensions

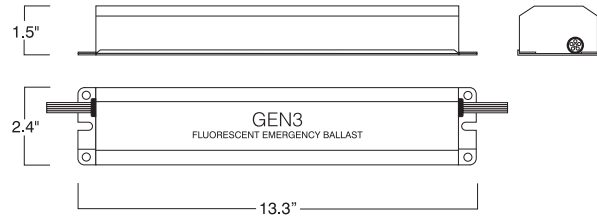
13.3" x 2.4" x 1.5"
(339 mm x 60 mm x 38 mm)
Mounting Center 12.8" (325 mm)

Weight

3.4 lbs. (1.54 kg)

Audible Alarm

User Selectable



APPLICATION

The GEN3 fluorescent backup ballast works in conjunction with an INSTANT START, PARALLEL AC ballast that is supplemented with an auxiliary emergency generator to operate two or three lamps at high illumination between the time AC power is lost and the auxiliary emergency generator provides power. This time is typically less than 10 seconds; however, should the generator fail to power emergency lighting, the GEN3 provides additional redundancy by ensuring uninterruptible illumination for at least two minutes. The backup ballast consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one compact red case. The GEN3 can be used with two or three 32 W (4') T8s or two 40 - 55 W (4-pin) long compact fluorescent lamps (see Table 1). It is compatible only with INSTANT START, PARALLEL two-, three- and four-lamp electronic AC ballasts. The GEN3 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: high levels of interim emergency illumination for health care, educational, commercial, detention and correctional facilities using auxiliary generators to power emergency lighting.

OPERATION

When AC power fails, the GEN3 immediately switches to the backup mode, operating two or three lamps at a high lumen output for a minimum of two minutes. If selected, the audible alarm sounds for the duration of backup operation, signifying the backup ballast is powering lighting. When AC power is restored via the AC main or the auxiliary generator, the GEN3 automatically returns to the charging mode. The audible alarm discontinues sounding.

INSTALLATION

The GEN3 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 backup ballast. The backup ballast and AC ballast must be powered from the same branch circuit (from the generator transfer switch). The GEN3 may be installed inside, on top of or remote from the fixture. The backup 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 GEN3 has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Auxiliary Lighting and Power Equipment," and is UL Listed for factory or field installation.

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

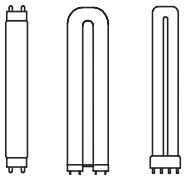
Specifiers Reference

Project _____ Type _____ Model No. _____

Comments _____

L4100002

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Fluorescent Emergency Ballast

Specification-grade interim lighting for generator backup systems; Up to 7900 lumens with two or three 32 W (4') T8 lamps

BACKUP ILLUMINATION

Depending on the number (two or three), wattage and type of lamps selected, GEN3 produces 4700 to 7900 lumens initial backup light output. During backup illumination, two or three lamps are illuminated, even if installed with a four-lamp AC ballast.

SPECIFICATION

Backup lighting shall be provided by using a standard fluorescent fixture equipped with a Philips Bodine GEN3 backup ballast. This backup 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 single-pole test switch and installation hardware shall be provided. The backup ballast shall be capable of operating [two or three] _____ fluorescent lamps at _____ lumens (see Table 2) initial light output in the backup mode for a minimum of two minutes. It shall be suitable for indoor locations. The GEN3 shall have 5 Watts of input power and an 18 Watt-hour battery capacity. The backup 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 GEN3 is warranted for five (5) full years from date of purchase. This warranty covers only properly installed Philips Bodine backup ballasts used under normal conditions. For the warranty period, Philips Emergency Lighting will, at its option, repair or replace without charge a defective backup 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 backup ballast.

Table 1 - Lamp Compatibility

LAMP (Diameter)	BASE	WATTAGE (Length)	NO. of LAMPS (Emergency)
T8 (1")	Bipin	32 W (4')	2 or 3
		31 W U Bent	
Long Compact	4-pin (2G11)	40-55 W	2

Table 2 - Lumen Output

LAMP	LUMENS*	
	3 Lamps	2 Lamps
FO32/841 T8, FO31 T8 U BENT	6900	6200
FO32/741 T8	7900	6400
PL-L 50W, F50BX/RS FT55DL		4700
PL-L 40W/RS, F40/30BX, FT40DL/RS		5700

* After 10 seconds of discharge.

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