

Type No. _____
 Job Name _____
 Catalog No. _____



Shown: L3000ST



L3000ST

Fluorescent Emergency Ballast

For One or Two Lamp Operation with Self-Test Diagnostics

3500 Lumen Maximum Output

The L3000ST Fluorescent Emergency Ballast converts switched and unswitched fluorescent lighting into code required emergency lighting. The L3000ST may be installed in or near the fixture to provide unobtrusive life safety protection.

Housing

- Constructed of 20 gauge steel with a high temperature powder coat finish
- Slim housing allows for housing frame mounting on most recessed luminaires

Electronics

- 120/277 VAC dual voltage input with surge protection, solid state charging circuitry provides for a reliable charging system
- Charging system complete with AC indicator lamp and test switch

Electrical Specifications

- Input power requirements: 8 watts max

Lamp Operation¹

- Operates the following lamp types:²
 T8 Linear Fluorescent
 T12 Linear Fluorescent
 T9 Circline
 T12 U-Bent
 T5 Long Compact Fluorescent
 Compact 4 Pin Fluorescent

NOTES:

- 1) Consult factory for compatibility, operation and performance of product with lamp types not listed.
- 2) See Table 1 for specific lamp performance and operation

Self Diagnostics

The diagnostics circuit constantly monitors battery voltage and charging current, and will communicate a fault by flashing the status indicator lamp. An automatic discharge test is also performed for 30 seconds, every 30 days and for 90 minutes every 12 months. This automatic test satisfies the functional period test required by NFPA 101.

Battery

- Maintenance free, sealed nickel cadmium battery
- Supplies 90 minutes of emergency power
- Battery has an estimated service life of 10 years, with an operating temperature range of 32°F (0°C) to 131°F (55°C)

Application

- Commercial locations where emergency lighting protection is required using existing fluorescent lighting
- The L3000ST meets the Buy American requirements

Code Compliance

- UL 924 listed
- NFPA70 and NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards

Warranty

Electronics: 5 years
 Battery: 5 years

Lamp Operation and Performance Table 1

LAMP TYPE	WATTAGE	BASE TYPE	NON-EMERGENCY MAX. LUMEN OUTPUT	EMERGENCY OP. MAX. LUMEN OUTPUT	EMERGENCY LAMP OPERATION
F40T12	40	G13/Med Bi-Pin	2650	2650	One or Two
F96T12	75	FA8/Single-Pin	5500	2800	One
F48T12HD	60	R17D/Recessed	4050	3000	One
F96T12HD	95	R17D/Recessed	8000	2900	One
F96T12VHO	215	R17D/Recessed	13500	2900	One
F25T8	25	G13/Med Bi-Pin	2080	2250	One or Two
F32T8	32	G13/Med Bi-Pin	2850	3000	One or Two
F40T8	40	G13/Med Bi-Pin	3600	3000	One
F96T8	59	FA8/Single-Pin	5800	3000	One
F39/36BX	39	2G11/4-Pin	2850	2850	One or Two
F40/30BX	40	2G11/4-Pin	3150	1800	One
F42TBXT4	42	G24Q-3/4-Pin	3200	3200	One or Two

NOTES:

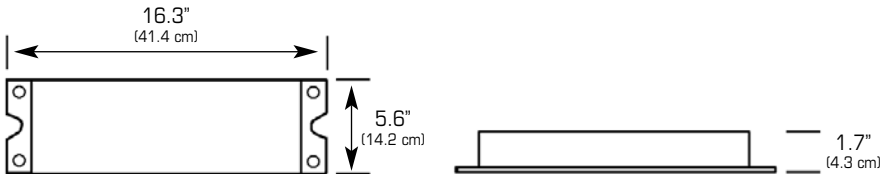
- 1) Maximum non-emergency lumen output can vary based on lamp manufacturer, ambient operating temperature, and ballast manufacturer.
- 2) Maximum emergency lumen output is based on total output of one or two lamps, and can vary based on lamp manufacturer and ambient operating temperature.
- 3) Maximum emergency lumen output is supported for a full 90 minutes of operation.
- 4) Consult factory for compatibility, operation and performance of lamp types not listed.

Ordering Information

L3000ST	
MODEL	OPTIONS
L3000ST = 3500 Max. Lumen Output Fluorescent Emergency Ballast for One or Two Lamp Operation	EX = Special Input Transformer (Specify voltage & frequency)

ACCESSORIES (Ordered Separately)
RTS = Remote Test Plate
RTS2 = Remote Test Switch & Pilot Light Kit (includes plate)

Dimensions



Dimensions are approximate and subject to change.

Illumination

The L3000ST provides 90 minutes of emergency illumination, and produces a maximum of 3500 initial lamp lumens. The L3000ST can be used with most 17w to 215w (2' - 8') T8, T10 or T12 fluorescent lamps without integral starters including U-shaped, HO, VHO, circline, energy saving, and 4 pin twin, quad, and triple twin-tube compacts. The L3000ST is also compatible with most 1, 2, 3, and 4-lamp electronic, standard, energy saving and dimming AC ballasts. See lamp operation for specific lamp types.

Electronics

Dual voltage 120/277 VAC input is standard.

An indicator light and test switch are available to signify that AC utility is present, and periodically transfer to emergency operation.

Battery charging circuitry is entirely solid-state, and of a constant current design. Battery recharge time after a complete discharge is less than the required UL 924 standard.

Solid-state circuitry causes an instantaneous transfer to battery power if either the loss of AC utility, or a brownout condition is detected. When line voltage is present and stabilized, the transfer circuitry switches back to normal operation and begins recharging the battery. The transfer circuitry can be tested via a momentary test switch installed on the luminaire, or in a remote location.

Suggested Specification

Furnish and install LightGuard's fluorescent emergency ballast model L3000ST. The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC), and be approved for installation inside, on top of, or remote from the chosen luminaire.

INSTALLATION AND OPERATION - Unit shall be easily field connected to a 120 or 277 VAC, 60 hertz, unswitched power source. Installation must comply with the NEC as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

CHARGER - Unit shall utilize a solid-state, constant current charging system which will maintain the battery at full capacity without the need for periodic exercising or equalization.

SELF DIAGNOSTICS - Unit shall contain a microprocessor controlled self-test module that monitors battery voltage and charging current. If this module detects a fault, the user will be notified via a status indicator lamp and audible buzzer. In addition, an automatic discharge test is performed for 30 seconds every 30 days, and for 90 minutes every 12 months in compliance with automatic test requirements set forth by NFPA101 Section 31-1.

BATTERY - The battery shall be a maintenance free, nickel cadmium battery. The nickel cadmium battery shall utilize sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 131°F (55°C). Nickel cadmium batteries shall be supplied with a five year full warranty.

ENCLOSURE - The housing shall be constructed of 20 gauge steel with a high temperature powder coat finish. The slim housing shall allow for housing frame mounting on most recessed luminaires.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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