

Type No. _____
 Job Name _____
 Catalog No. _____



Shown: L700



L700 L700DL

Fluorescent Emergency Ballast For One or Two Lamp Emergency Illumination 700 Lumen Maximum Output

The L700 Fluorescent Emergency Ballast converts switched and unswitched fluorescent lighting into code required emergency lighting. The L700 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 paint finish
- Slim housing allows for wireway channel 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:
3.5 watts max

Warranty

- Electronics: 3 years
- Battery: 3 years

Lamp Operation¹

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

Application

- Commercial locations where emergency lighting protection is required using existing fluorescent lighting
- The L700 meets the Buy American requirements

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)

Code Compliance

- UL 924 listed
- UL Listed for Damp Locations
- NFPA70 and NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- Suitable for use in sealed and gasketed fixtures

Lamp Operation and Performance Table 1

LAMP TYPE	WATTAGE	BASE TYPE	NON-EMERGENCY MAX. LUMEN OUTPUT	EMERGENCY OP. MAX. LUMEN OUTPUT	EMERGENCY LAMP OPERATION
F20T12	20	G13/Med Bi-Pin	1275	600 - 700	One or Two
F30T12	30	G13/Med Bi-Pin	2350	600 - 700	One or Two
F40T12	40	G13/Med Bi-Pin	2650	600 - 700	One or Two
F60T12	50	FA8/Single-Pin	3600	600 - 700	One
F72T12	55	FA8/Single-Pin	4500	600 - 700	One
F96T12	60	FA8/Single-Pin	5500	600 - 700	One
F24T12HO	35	R17D/Recessed	1620	600 - 700	One
F36T12HO	45	R17D/Recessed	2800	600 - 700	One
F48T12HO	60	R17D/Recessed	4050	600 - 700	One
F60T12HO	75	R17D/Recessed	5150	600 - 700	One
F72T12HO	85	R17D/Recessed	6350	600 - 700	One
F84T12HO	100	R17D/Recessed	7700	600 - 700	One
F96T12HO	95	R17D/Recessed	8000	600 - 700	One
F48T10	110	R17D/Recessed	6200	600 - 700	One
F17T8	17	G13/Med Bi-Pin	1350	600 - 700	One or Two
F25T8	25	G13/Med Bi-Pin	2150	600 - 700	One or Two
F32T8	32	G13/Med Bi-Pin	2950	600 - 700	One or Two
F40T8	40	G13/Med Bi-Pin	3725	600 - 700	One
F72T8	35	FA8/Single-Pin	3000	600 - 700	One
F96T8	50	FA8/Single-Pin	5950	600 - 700	One
FC6T9	20	G10Q/4-Pin	800	600 - 700	One
FC8T9	22	G10Q/4-Pin	1100	600 - 700	One
FC12T9	32	G10Q/4-Pin	1950	600 - 700	One
FC16T9	40	G10Q/4-Pin	2700	600 - 700	One
F39/36BX	39	2G11/4-Pin	2850	600 - 700	One
F40/30BX	40	2G11/4-Pin	3150	600 - 700	One
F50BX	50	2G11/4-Pin	4000	600 - 700	One

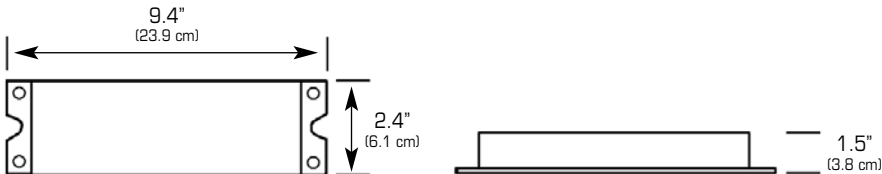
NOTES:

- 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

L700		
MODEL	OPTIONS	ACCESSORIES (Ordered Separately)
L700 = 700 Max. Lumen Output Fluorescent Emergency Ballast for One or Two Lamp Operation	EX = Special Input Transformer (Specify voltage & frequency) DL = Damp Location Listing	CCAPS = Wire Cover Kit for External Mounting RTS = Remote Test Plate RTS2 = Remote Test Switch & Pilot Light Kit (includes plate)

Dimensions



Dimensions are approximate and subject to change.

Illumination

The L700 provides 90 minutes of emergency illumination, and produces 600 - 700 lumens initial emergency light output. If two lamp operation is selected, light output is evenly divided between the lamps for better emergency illumination. The L700 can be used with most 17w to 215w (2' - 8') T8, T10 or T12 fluorescent lamps without integral starters including U-shaped, HQ, VHO, circline, energy saving, and 4 pin compacts. It 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 L700. 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.

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 three year full warranty.

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

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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