

# BAL650 Series

## Fluorescent Emergency Ballast

### INTENDED USE:

The BAL650 fluorescent 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 white case. The BAL650 can be used with one 13 - 42 W or two 13 - 39 W (4-pin) twin, quad and triple twin-tube compacts. It is also compatible with most one-, two-, three-, and four-lamp electronic, standard, energy-saving and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. The BAL650 is suitable for indoor locations and is not suitable for air handling heated air outlets or for wet or hazardous locations. For information about specific lamp and ballast compatibility, please call the factory



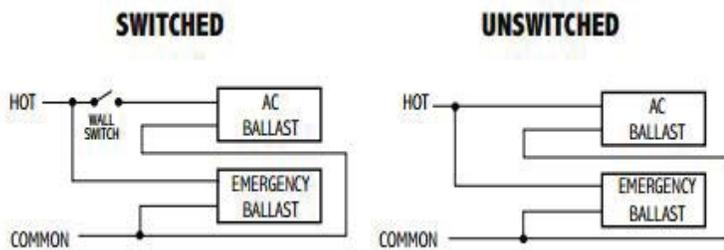
1 or 2 lamp emergency illumination for 4-pin fluorescent lamps (with integral starter)

### OPERATION

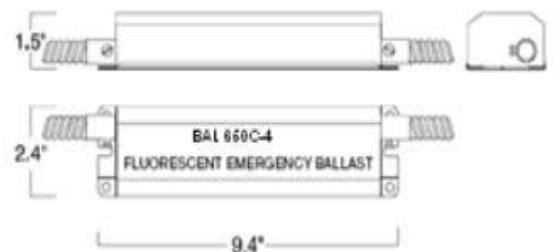
When AC power fails, the BAL650 immediately switches to the emergency mode, keeping either one or two lamps illuminated at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the BAL650 automatically returns to the charging mode.

### INSTALLATION

The BAL650 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 BAL650 may be installed 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. For simple visual inspection of the charging indicator light and easy operational testing, the test/monitor plate can be installed near the fixture wall switch. Or, it can be installed in the ceiling near the fixture to ensure an unobtrusive installation. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C.



Primary circuit only. Lamp leads not shown.



### BATTERY

Because high temperatures exist in fluorescent fixtures, the BAL650 uses a specially constructed, high-temperature nickel cadmium battery. This battery requires no maintenance and has a life expectancy of 7- 10 years.

### EMERGENCY ILLUMINATION

Depending on the number (one or two), wattage and type of lamps selected, the BAL650 produces 300 to 750 lumens initial emergency light output (contact factory for specific information on the lumen output for different lamps). If two-lamp operation is selected, light output is evenly divided between the lamps for better distribution of emergency illumination. Emergency lumen output will be less with one-lamp operation.

Catalog Number:
Notes:



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### SPECIFICATIONS

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a Texas Fluorescents BAL650 emergency ballast. This emergency ballast shall consist of a high temperature, maintenance free nickel cadmium battery, charger and electronic circuitry contained in one 9 3/8" x 2 3/8" x 1 1/2" white metal case with 2 ft lengths of flexible conduit at each end. A test/monitor plate with a solid state charging indicator light to monitor the charger and battery, a single pole test switch and installation hardware shall be provided. The emergency ballast shall be capable of operating 1 or 2 6W-28W tubular fluorescent lamps; 1 or 2 13W-32W and one 40W-42W 4-pin fluorescent lamps (with no integral starters) in the emergency mode for a minimum of 90 minutes. The BAL650 shall produce 300-750 lumens initial emergency light output, have 3.5W of input power, have a 14.4W/hr battery capacity and comply with emergency standards set forth by the current NEC. The emergency ballast shall be UL listed for installation on top of or remote from the fixture and shall be warranted for a full 5 years from the date of purchase.

### WARRANTY

Model BAL650 is warranted for five (5) full years from date of purchase. This warranty covers only-properly installed Texas Fluorescents emergency ballasts used under normal conditions. For the warranty period Texas Fluorescents will, at its option, repair or replace without charge, a defective emergency ballast provided it is returned to the factory transportation prepaid and out 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.

### UL AND CODE COMPLIANCE

The BAL650 has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment," and is UL Listed for factory or field installation. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC) and requirements.

PRODUCT SUMMARY			
UL LISTED	DUAL VOLTAGE INPUT	BATTERY	TEMPERATURE RATING (AMBIENT)
Factory or field installation	120/277 VAC 60Hz	High-Temperature Maintenance Free Nickel-Cadmium Battery 7-10 year life Expectancy	0°C to+55°C (32° to 131°F)
ILLUMINATION	AC INPUT CURRENT	BATTERY CHARGING CURRENT	DIMENSIONS
90 Minutes	280mA	280mA	9.4" x 2.4" x 1.5" (238mm x 60mm x 38mm) 2' (610mm) Flexible conduit
INITIAL LIGHT OUTPUT	AC INPUT POWER RATING	RECHARGE TIME	WEIGHT
300-750 Lumens	3.5 Watts	24 Hours	2.1lbs (1kg)
FULL WARRANTY	TEST SWITCH	CHARGING LIGHT INDICATOR	
5 years (NOT pro-rata)	Single pole	LED	

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