

TCP 20B100 Emergency Ballast

PROJECT _____

LOCATION/TYPE _____

Product Summary

- **UL Listed**
Factory or Field Installation
- **AC Input Current**
280mA
- **Battery**
High-Temperature
Maintenance-Free
Nickel-Cadmium Battery
7-10 Year Life Expectancy
- **Charging Indicator Light**
LED
- **Dimensions**
9.4" x 2.4" x 1.5"
238mm x 60mm x 38mm
Mounting center 8.9" (226mm)
- **Illumination**
90 Minutes
- **AC Input Power Rating**
2.5 Watts
- **Battery Charging Current**
280mA
- **Temperature Rating (Ambient)**
0°C TO +55°C (32°F TO 131°F)
- **Initial Light Output**
350-450 Lumens
- **Test Switch**
Single Pole
- **Recharge Time**
24 Hours
- **Weight**
2.1 lbs (1 kg)
- **Full Warranty**
5 Years (NOT pro-rata)
- **Dual Voltage Input**
120/277 VAC, 60 Hz

Operation

The TCP 20B100 fluorescent emergency ballast works in conjunction with an AC ballast to convert new or existing fluorescent fixtures into emergency lighting. When AC power fails, the 20B100 immediately switches to the emergency mode, operating one lamp at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the ballast automatically returns to the charging mode.

Emergency Illumination

The 20B100 produces 350 to 450 lumens initial emergency light output. During emergency illumination, one lamp is illuminated, even if installed with a multi-lamp AC ballast. Emergency lumen output will be less with a compact fluorescent lamp.

Compatibility

The 20B100 can be used with most 17 - 215 W (2'-8') T8, T9, T10 or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, circline, energy-saving and (4-pin) long compacts in the emergency mode for a minimum of 90 minutes. 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 20B100 shall have 2.5 Watts of input power and a 9.6 Watt-hour battery capacity and shall exceed emergency standards set forth by the current NEC.





TCP 20B100 Emergency Ballast

Specifications

The TCP 20B100 emergency ballast consists of a field-replaceable, high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry in one 9 3/8" x 2 3/8" x 1 1/2" white metal case with a life expectancy of 7 - 10 years. A solid-state charging indicator light to monitor the charger and battery, single-pole test switch and installation hardware shall be provided.

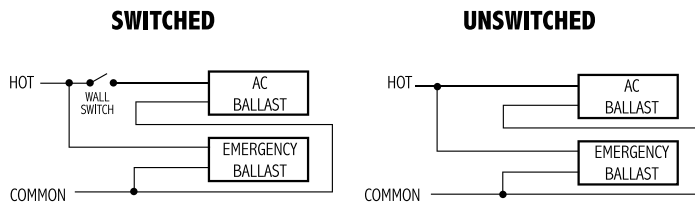
Applications

The 20B100 is suitable for use in indoor fixtures EXCEPT air handling heated air outlets, and wet or hazardous location fixtures. For information about specific lamp and ballast compatibility, please call the factory. Recommended applications include: hospital surgical suites and areas along the path of egress with high ceiling heights, as well as health care, educational and commercial facilities needing higher levels of emergency illumination.

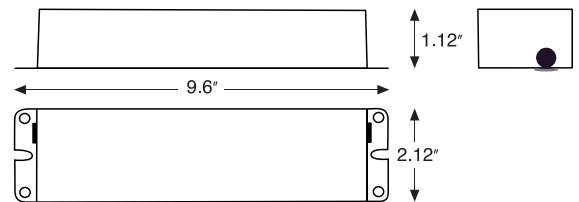
Installation

The 20B100 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 20B100 may be installed on top of or remote from the fixture.

Installation is not recommended with fixtures where the ambient temperature may fall below 0°C. 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.



Primary circuit only. Lamp leads not shown.



UL And Code Compliance

The 20B100 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 UL 90-minute requirements.

Warranty

Model 20B100 is warranted for five (5) full years from date of purchase. This warranty covers only properly installed TCP emergency ballasts used under normal conditions. For the warranty period TCP 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.



5 YEAR
WARRANTY

TCP, Inc.

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