



MF40-100



FLUORESCENT EMERGENCY BALLAST



PROJECT:
FIXTURE TYPE:
LOCATION:
CONTACT/PHONE:

PRODUCT SPECIFICATIONS

APPLICATION

The MF40-100 fluorescent emergency ballast works in conjunction with the 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 MF40-100 can be used with one 17 W through 40 W (2' - 4') T8, T10, or T12 fluorescent lamp without integral starters, including U-shaped, HO, VHO, circline, energy saving, and (4-pin) long compact. It is also compatible with most 1, 2, 3, and 4-lamp electronic, standard, energy saving, and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. This ballast is not suitable for use in air handling heated air outlet fixtures, and wet or hazardous location fixtures. For information about specific lamp and ballast compatibility, please call the factory.

OPERATION

When AC power fails, the MF40-100 immediately switches to the emergency mode, keeping one lamp illuminated at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the ballast automatically returns to the charging mode.

INSTALLATION

The MF40-100 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 MF40-100 may be installed inside, on top of, or remote from the fixture. The emergency ballast may be remote-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 for extended periods.

UL AND CODE COMPLIANCE

The MF40-100 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.

BATTERY

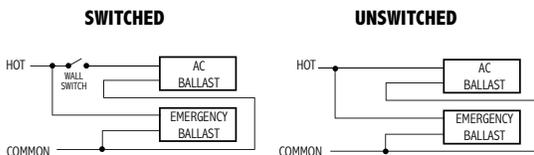
Since high temperatures exist in fluorescent fixtures, the MF40-100 uses a specially constructed, high-temperature nickel cadmium battery. This battery requires no maintenance, and has a life expectancy of 7 to 10 years.

EMERGENCY ILLUMINATION

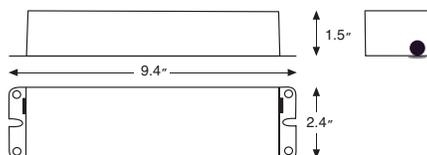
The MF40-100 produces 350 to 450 lumens initial emergency light output. During emergency illumination, one lamp is illuminated, even if installed with a multi-lamp AC ballast. Emergency lumen output will be less with a compact fluorescent lamp.

SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a MF40-100 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. 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 one 17 W - 40 W (2' - 4') T8, T10, or T12 fluorescent lamp or (4-pin) long compact fluorescent lamp at reduced illumination in the emergency mode for a minimum of 90 minutes. The MF40-100 shall produce 350 to 450 lumens initial emergency light output, have 2.5 Watts of input power, a 9.6 Watt-hour battery capacity, and comply with emergency standards set forth by the current NEC. The emergency ballast shall be UL Listed for installation inside, on top of, or remote from the fixture, warranted for a full year from date of purchase.



Primary circuit only. Lamp leads not shown.





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WARRANTY

Model MF40-100 is warranted for one (1) full years from date of purchase. This warranty covers only properly installed emergency ballasts used under normal conditions. For the warranty period Mule 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.

PRODUCT SUMMARY

UL LISTED

Factory or Field
Installation

DUAL VOLTAGE INPUT
120/277 VAC
60 Hz

BATTERY

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

TEMPERATURE RATING (AMBIENT)

0°C TO +55°C
(32°F TO 131°F)

ILLUMINATION

90 Minutes

AC INPUT CURRENT
320mA

BATTERY CHARGING CURRENT

270mA

DIMENSIONS

9.4" x 2.4" x 1.5"
(238mm x 60mm x 38mm)
Mounting center 8.9" (226mm)

INITIAL LIGHT OUTPUT

600-700 Lumens

AC INPUT POWER RATING
2.5 Watts

RECHARGE TIME

24 Hours

WEIGHT

2.1 lbs (1.1 kg)

FULL WARRANTY

1 Year (NOT pro-rata)

TEST SWITCH
Single pole

CHARGING INDICATOR LIGHT
LED

<i>Lamp</i>	<i>Initial Lumens</i>
	<i>1-lamp</i>

T8 17W	450
T8 32W	500
T12 20W	425
T12 40W	450
4-pin PL CF 26W	450