

XITANIUM EM 3W 50mA 50V 3H 230V REDiTEST®

Auto-Testing Emergency LED Driver

PHILIPS bodine

A Division Of Philips Electronics North America Corporation

Up to 2.5 W emergency illumination with LEDs

Product Summary

CE, ENEC



Illumination Time
3 hours

Full Warranty
5 Years (NOT pro-rata)

Input Voltage
220-240 VAC, 50 Hz

AC Input Current
25 mA (nominal)

AC Input Power Rating
4.2 W (maximum)

Output Current
52 mA (constant)

Output Power
2.5 W (maximum)

Status Indicator
Bi-colour indicator LED

Battery (External)
High-Temperature,
Maintenance-Free
Nickel-Cadmium Battery
7- to 10-Year Life Expectancy

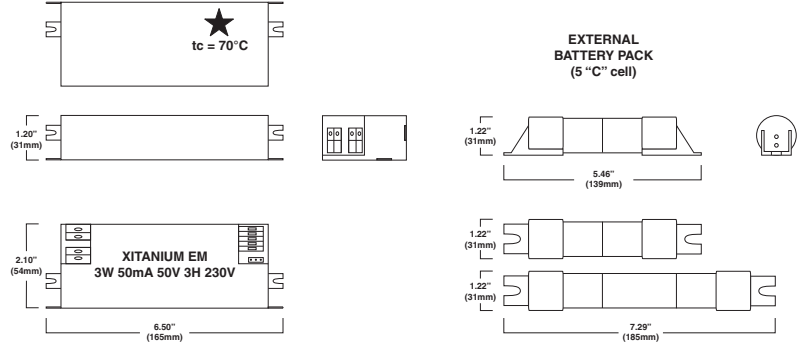
Battery Charging Current
160 mA

Recharge Time
24 Hours

Temperature Rating (Ambient)
0°C to +50°C
(32°F to 122°F)

Dimensions (Excluding Battery)
6.50" x 2.10" x 1.20"
(165 mm x 54 mm x 31 mm)

Emergency Ballast Lumen Factor
Fortimo LED driver 1100-2000
Fortimo LED DLM2000 36W/830
EBLF 10%



Application

The XITANIUM EM emergency LED driver works in conjunction with an AC LED driver to convert new or existing LED fixtures into emergency lighting. The XITANIUM EM can be used with an LED lighting load of up to 2.5 Watts at a constant rated current of 52 mA for 3 hours. If used in an emergency-only fixture, no AC driver is necessary.

Operation

When AC power fails, the XITANIUM EM immediately switches to the emergency mode, operating the LEDs at a reduced lumen output for a minimum of 3 hours. When AC power is restored, the emergency driver automatically returns to the charging mode. During automated self-testing, the XITANIUM EM simulates an AC power failure, causing the emergency LED driver to switch to emergency mode and conduct a discharge to monitor battery voltage and discharge current. The operational status of the unit is indicated by a bi-colour LED.

Installation

The XITANIUM EM 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 driver. The emergency driver must be fed from the same branch circuit as the AC driver. During installation, when the battery is connected for the first time the emergency driver enters rest mode. During this mode, the emergency driver's output is disabled. Connection to the mains is required to exit the rest mode.

Testing

Commissioning Test: After installation of the emergency driver and initial connection to the mains supply, the emergency driver will commence charging the batteries for 24 hours (initial charge). Upon completion of this initial charge the emergency driver will conduct a 3 hour commissioning test.

Functional test: Functional tests are carried out for 5 seconds on a weekly basis under control of the micro controller.

Duration test: A 3 hour full duration test is carried out yearly to check the capacity of the batteries.

Specifiers Reference

Project _____ Type _____ Model No. _____
Comments _____

L2300005

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XITANIUM EM

3W 50mA 50V 3H 230V REDiTEST®

Auto-Testing Emergency LED Driver

Up to 2.5 W emergency illumination with LEDs

Emergency Illumination

The XITANIUM EM operates an LED load of up to 2.5 W at a constant rated current of 52 mA for a minimum of 3 hours.

Specification

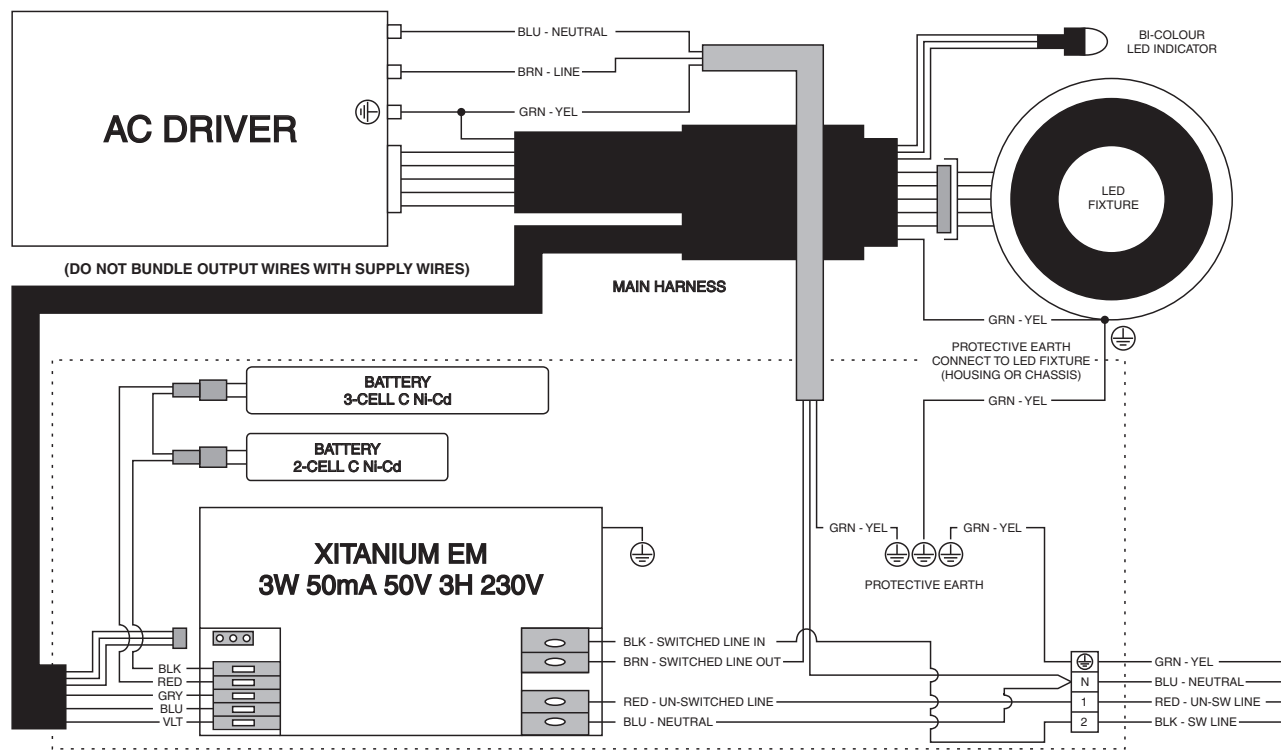
Emergency lighting shall be provided by using a LED fixture equipped with a Philips Bodine XITANIUM EM emergency driver. A bi-colour indicator LED to monitor charger and battery shall be provided. The emergency driver shall be capable of operating an LED load of up to 2.5 Watts at a constant rated current of 52 mA for a minimum of 3 hours. The XITANIUM EM shall have less than 4.2 watts input power and a 15 Watt-hour battery capacity and shall comply with emergency standards set forth by the current IEC. The emergency driver shall be warranted for a full five years from date of purchase.

Warranty

Model XITANIUM EM is warranted for five (5) full years from date of purchase. This warranty covers only properly installed Philips Bodine emergency LED drivers used under normal conditions. For the warranty period, Philips Emergency Lighting will, at its option, repair or replace without charge a defective emergency LED driver, 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 driver.

Status indication

LED	System Status
Permanent Green	Charging mode. System OK
Fast flashing green (0.2 sec interval)	Functional or Factory test Underway
Slow flashing green (0.5 sec interval)	Duration test or Commissioning test underway
Permanent Red	Lamp Fault or No Load/Lamp
Fast flashing Red (0.2 sec interval)	Charging fault (Charge Current Fault)
Slow flashing Red (0.5 sec interval)	Battery failure during test modes and charging mode.
Slow flashing green (1 sec interval)	Rest mode



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