bodine

Normal/Emergency Ballast

UltimateOne

BAC40EM10



Combination AC/Emergency driver for LED strips Class 2 Output 40 Watts Output Power (AC) 10 Watts Output Power (Emergency)

Product order number:BAC40EM10M

12NC number:
913702469401

Project:		
Location:		
Cat.No:		
Туре:		
Qty:		
Notes:		

Specifications

UL Component Recognized to UL 8750 and UL 924 Factory Installation Only (Indoor and Damp)

Universal Input Voltage 120-277 VAC, 50/60 Hz

Output Voltage 22.5-54V

Temperature Rating

Electronic Case Tc: Life - 75°C UL - 85°C Operating Ambient Temp Range: 0-50°C (32-122°F)

Warranty

5 Years (NOT pro-rata)

Illumination Time

90 Minutes Emergency

AC Input Current

60 mA Maximum (Charging Only)

AC Input Power Rating

5.5 W Maximum (Charging Only)

Output Power

10.0 W Maximum (Emergency)

Test Switch/Charging Indicator Light

Two-Wire Illuminated Test Switch (2W-ITS)

Battery

High-Temp, Maintenance-Free Nickel-Cadmium Battery 7- to 10-Year Life Expectancy

Weight

2.1 lbs (0.95 kg) Including battery

Recharge Time

24 Hours (36 hours after deep discharge) Maximum Output Power

Output Current (Programmable)

0.1 - 1.1 A

AC Input Current 0.45 A @ 120 V 0.19 A @ 277 V Maximum Input Power

51 W

THD @ Maximum Load

< 10%

Power Factor @ Max Load

> 0.95

Surge Protection (Ring Wave,kV)

2.5kV

Dimming

0-10V Analog, Class 1 or Class 2 wiring

Dimming Range

(with specified dimmers) $1\% \sim 100\%$ (for output current range 0.25 - 1.1 A)

Minimum Output Current

2.5 mA

Dimming Source Current

150 µA

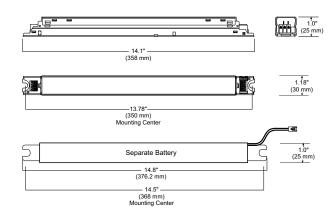
 $Additional\ information\ can\ be\ found\ on\ the\ Normal\ Driver\ Datasheet\ for\ the\ BAC40EM10\ Combo\ Driver\ (see\ UltimateOne.spec).$

Features & Benefits

- Combined AC and Emergency LED driver in one compact, low-profile case
- · AC/EM driver compatibility is confirmed
- Separate battery with installation tabs for mounting flexibility
- Fewer wires to simplify installation
- Smart Charger Technology for low energy consumption
- Meets Title 20 CEC (California Energy Commission) efficiency standards
- Class 2 Output UL 1310 Certified, CSA 22.2 No 223-M91 compliant
- Emergency mode lumen output of up to 1300 lumens
- · SimpleSet Programming for AC operation
- 0-10V dimming to 1%

Dimensions

Case - 14.1" x 1.18" x 1.0" (mounting center -13.78")
Battery - 1" Diameter x 14.8"L (mounting center - 14.5")
(see back page for additional drawings)





BAC40EM10 Emergency Ballast

Application

The BAC40EM10 is a combination 40W dimming LED driver and a 10 W Emergency LED Driver in one low profile case. The BAC40EM10 is supplied with a separate high-temperature nickel-cadmium battery, with one simple connection point. The BAC40EM10 can deliver up to 10 Watts to an LED load (measured at nominal battery voltage) for 90 minutes in the emergency mode. The BAC40EM10 is suitable for indoor and damp locations. The BAC40EM10 is universal input (120-277 V), and dims to 1%. The AC operation of the BAC40EM10 must be programmed with SimpleSet technology.

Operation

During normal operation, the BAC40EM10 operates as a standard SimpleSet programmable 40 W AC driver, with 0–10 VDC dimming compatibility and a minimum dim level of 1%. When AC power fails, the BAC40EM10 immediately switches to the emergency mode, operating the LEDs at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the emergency driver automatically returns to the charging mode.

Installation

The BAC40EM10 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 AC/EM driver. Installation is not recommended with fixtures where the ambient temperature may fall below 0° C. The product is suitable for installation in sealed and gasketed fixtures.

Emergency Illumination

In the Emergency mode, the BAC40EM10 operates an LED load of up to 10 W at nominal battery voltage for a minimum of 90 minutes.

Specification

Normal and Emergency lighting shall be provided by using an LED fixture equipped with a Bodine BAC40EM10 combination AC and Emergency LED Driver, with universal input (120-277 V), SimpleSet, and 0-10 VDC dimming to 1%. The BAC40EM10 shall include all AC/EM Driver functions in one case, and a separate high-temperature, maintenance-free nickel-cadmium battery with an easy connect wiring harness.

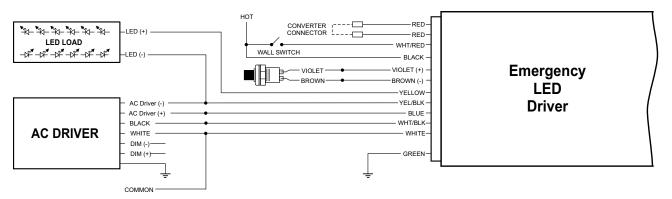
An illuminated test switch (ITS) to monitor charger and battery and installation hardware shall be provided. The combination AC and Emergency driver shall be capable of delivering up to 40 W AC under normal operation and 10 Watts to an LED load for a minimum of 90 minutes in the event of AC power loss. The BAC40EM10 is suitable for indoor and damp locations. The BAC40EM10 shall have a maximum of 5.0 watts of battery input power and a 25.2 Watt-hour battery capacity and shall comply with emergency standards set forth by the current NEC. This BAC40EM10 complies with Part 15 of the FCC Rules and meets Title 20 CEC (California Energy Commission) efficiency standards. The emergency driver shall be UL Recognized for factory installation only.

Warranty

The BAC40EM10 is warranted for five (5) full years from date of manufacture. See website for details.

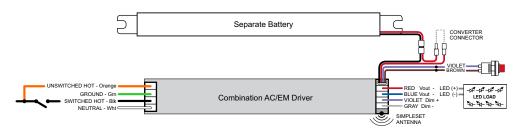
Traditional solution

(with wire splicing and wire nuts)

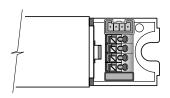


New and better solution

(with fewer wires for simpler installation using poke-in connections)



Plug-in and Poke-in Connections



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