



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

Project: _____
Location: _____
Cat.No: _____
Type: _____
Qty: _____
Notes: _____

Product order number:
BAC40EM10M

12NC number:
913702469401

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
40 W

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% - 100% (for output current range 0.25 - 1.1 A)

Minimum Output Current
2.5 mA

Dimming Source Current
150 μ A

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

Features & Benefits

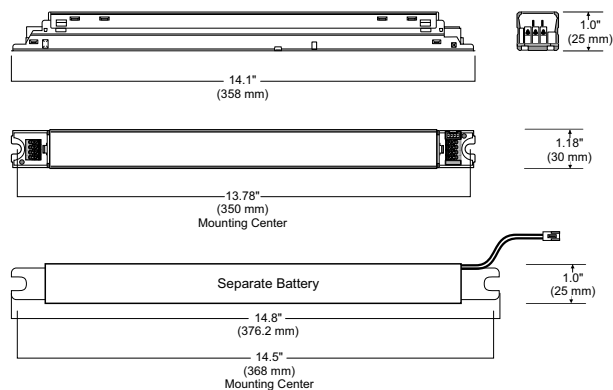
- Combined AC and Emergency LED driver in one compact, low-profile case
- AC/EM driver compatibility is confirmed
- Separate battery with installation tabs for mounting flexibility
- Fewer wires to simplify installation
- Smart Charger Technology for low energy consumption
- Meets Title 20 CEC (California 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

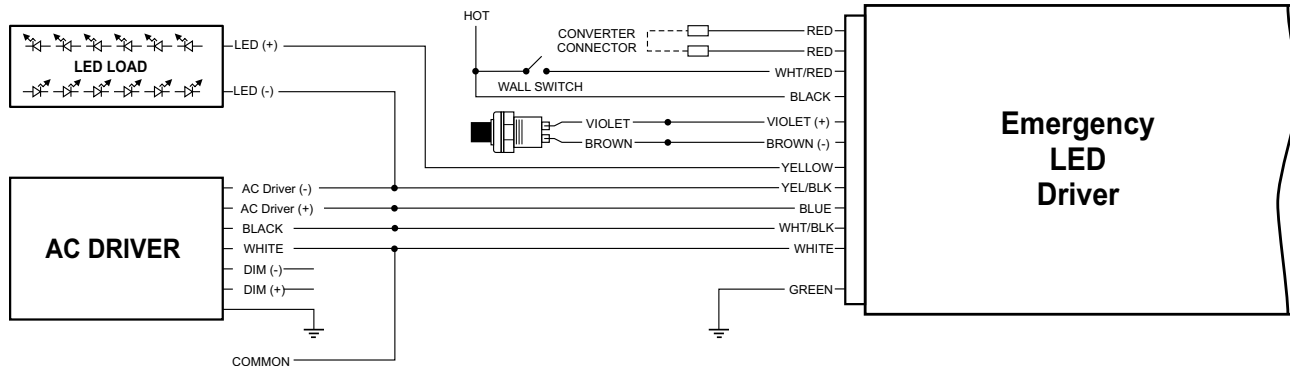
The BAC40EM10 is a combination 40W dimming LED driver and a 10 W Emergency LED Driver in one low profile case. The BAC40EM10 is supplied with a separate high-temperature nickel-cadmium battery, with one simple connection point. The BAC40EM10 can deliver up to 10 Watts to an LED load (measured at nominal 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.

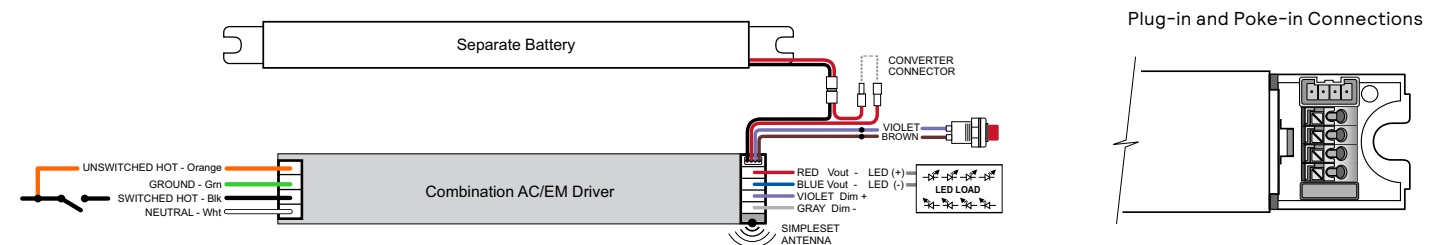
Traditional solution

(with wire splicing and wire nuts)



New and better solution

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



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