

# LED Emergency Driver 90313

## Installation Instructions



**SKU: 90313**  
**Product Code: BBU/EM9WU**  
**Product Description: Emergency Battery Back Up 9W 120-277V 90 minute 0-10V Dimming**



### Product description

- 9W Battery backup can be used with 0-10V Dimming LED fixtures up to 100W.
- LiFePO4 battery.
- 120-200VDC output.
- LED Emergency Battery backup transforms a standard LED fixture into an Emergency LED fixture.
- Supplied with dual function Indicator Light/Test Switch.

### Applications

- UL Listed for dry/damp locations.
- 120-200VDC Output Voltage
- Additional relay that can control standard LED driver.
- Deep discharge protection.
- Ambient Temperature Range: 10-60°C
- IP20 protection.
- Not intended for use in luminaries in high-risk task area lighting.



### Dimensions

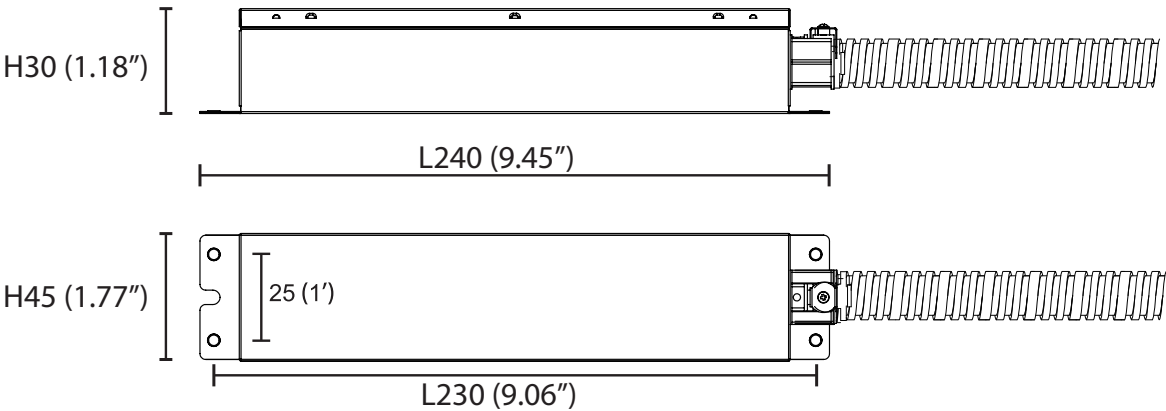
L240×W45×H30 mm  
L 9.45'× W 1.77'× H 1.18'



### Ordering data

Model No.:	Input voltage	Output voltage/power (Emergency mode)	Battery pack	Duration (E.M mode)
BBU/EM9WU	100-277Vac 50-60Hz	120-200VDC, 9W, CP	LiFePO <sub>4</sub> 12.8V, 1.6Ah, 20.48Wh	90minutes

### Dimensions



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### Technical Data

Item	Data
Rated input voltage	100-277VAC, 50/60Hz
Input current	100mA max
Input power	5W max
Power factor	0.6@100VAC, 0.5@277VAC
Output wire L-out N-out (LED load input)	3A Max
Output voltage range	120-200VDC, 250VDC max
Output voltage (emergency mode)	9W, Constant power
Battery pack voltage/capacity	LiFePO <sub>4</sub> 12.8V, 1600mAh, 20.48Wh
Recharge current	0-250mA
Recharge time	24 Hours
Discharge time	90 Minutes
Max. casing temperature tc	70°C
Ambient operating temperature	10-60°C
Design life	50,000 Hours
RFI/EMI	FCC

### Protections:

- Input over current protection.
- Output over voltage protection.
- Output under current protection.
- Output short circuit protection.

### Test switch

- Emergency driver will enter Emergency Mode if the test switch is pressed when the fixture power is on, otherwise the fixture will stay in charging mode.

Press the test switch for 3 seconds when the fixture is in Emergency Mode to return the fixture to its standard operating condition.

### LED indicator

- Red Stable: charging mode or fully charged
- Red Off: main power off or discharging mode
- Red Flash: 0.5 Second Rapid Flash represents failure.  
2.0 Second Slow Flash represents low battery charge.

### CAUTION:

- **DO NOT USE OUTDOORS.**
- **DO NOT MOUNT NEAR GAS OR ELECTRONIC HEATERS.**
- **EQUIPMENT SHOULD BE MOUNTED IN LOCATIONS AND AT HEIGHTS WHERE IT WILL NOT BE SUBJECTED TO TAMPERING BY UNAUTHORIZED PERSONNEL.**
- **THE USE OF ACCESSORY EQUIPMENT NOT RECOMMENDED BY THE MANUFACTURER MAY CAUSE AN UNSAFE CONDITION.**
- **Use with grounded, UL Listed, damp location rated fixtures.**
- **The equipment is intended for ordinary locations and for permanent installation into listed emergency luminaires.**

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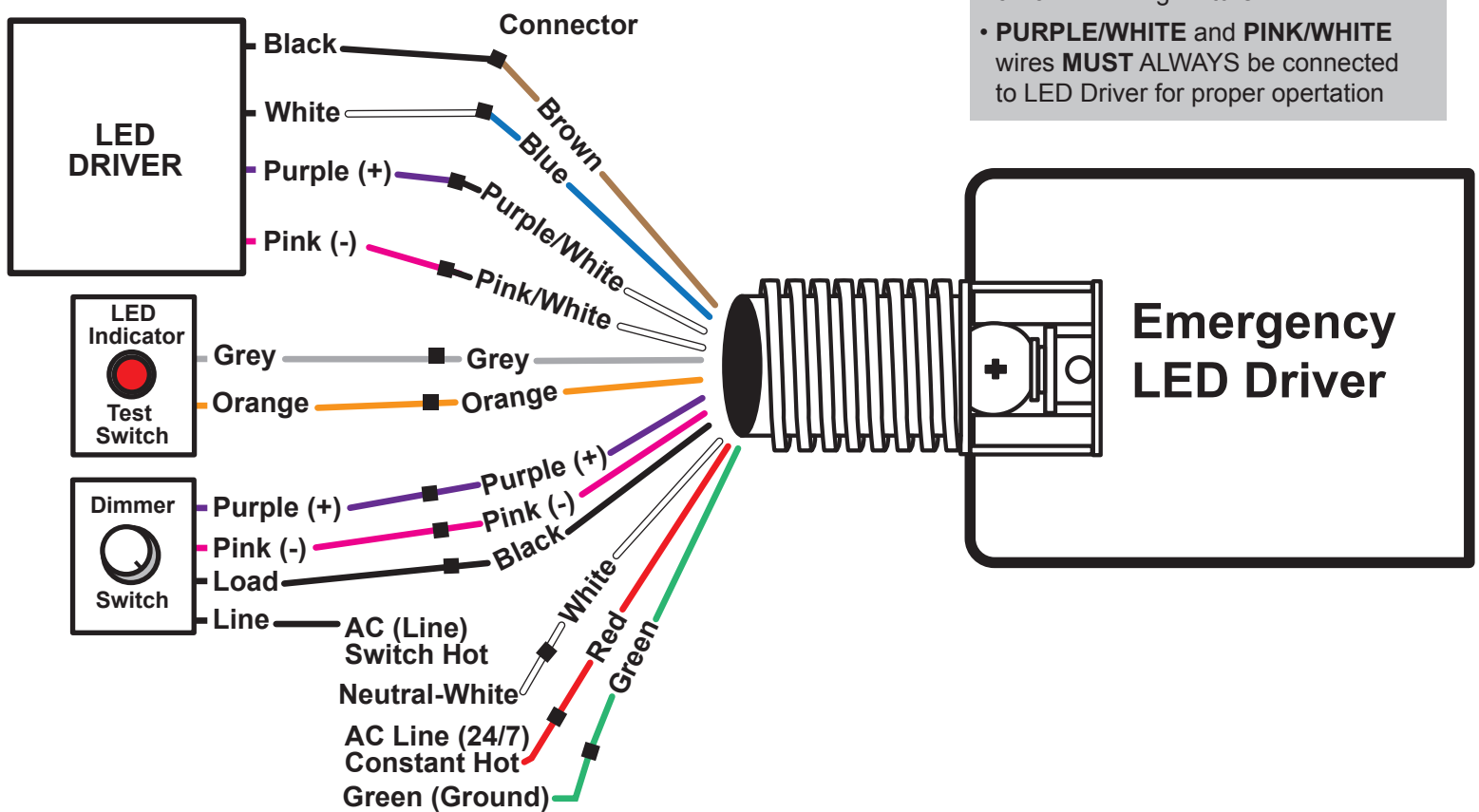
## Installation instruction:

- Install this product properly by a licensed electrician.
- Surface mounting and suspending mounting are available.
- Please check and confirm all the data and usage surrounding before installation.
- Damp or wet location installation is OK.
- This item could be used in the sealed fixtures or installed open area of the fixtures.
- Keep driver away from flammable materials with a place of good heat dissipation.
- Charge the battery consistently for greater than 24 hours for the first time usage.

## BBU/EM9WU works with:

- 9W-100W fixture with internal or external LED driver
- Fixtures above 9W must have 0-10V dimming compatability.

## Wiring Diagram with Dimmer Switch



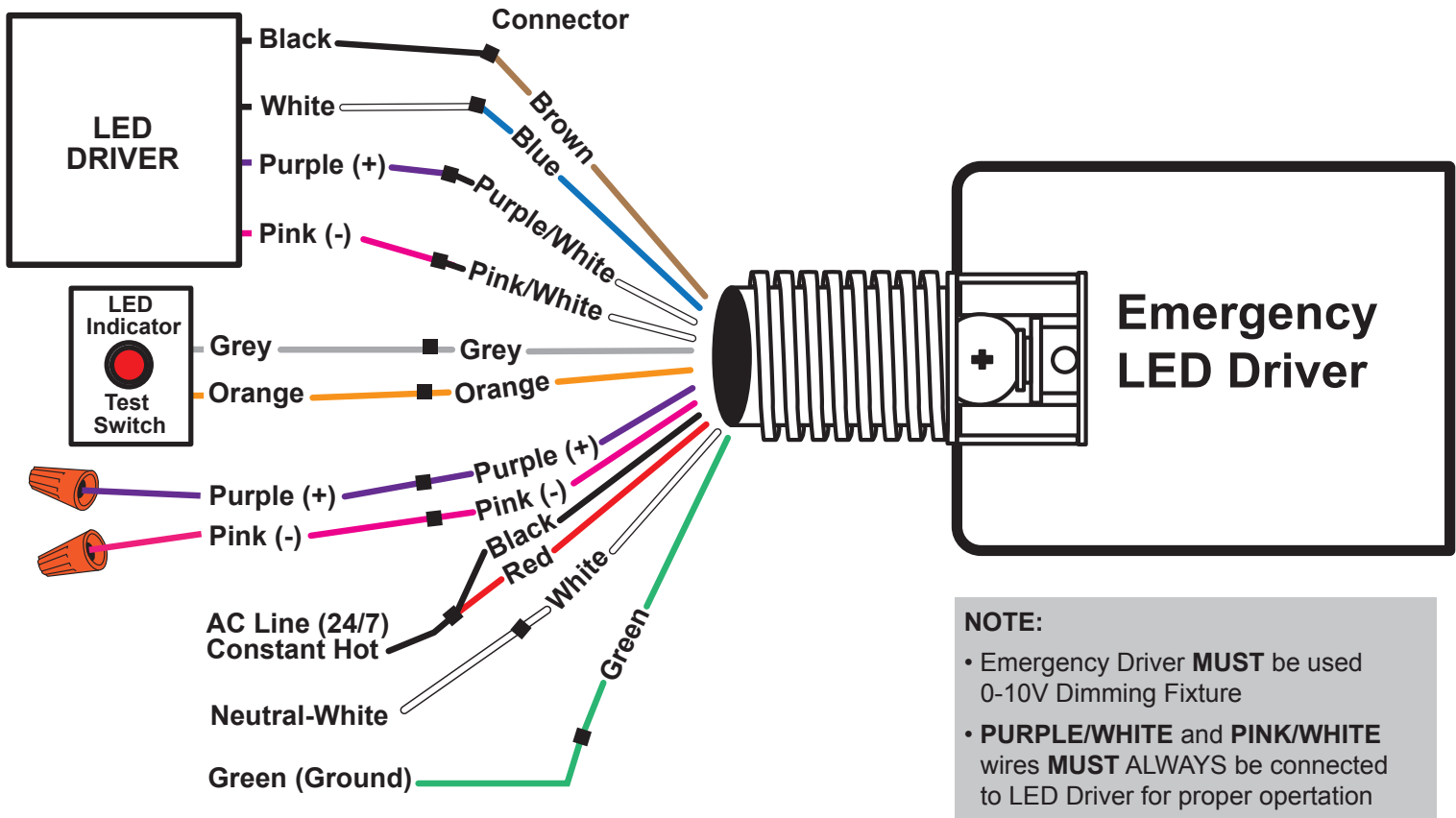
## NOTE:

- Emergency Driver **MUST** be used 0-10V Dimming Fixture
- **PURPLE/WHITE** and **PINK/WHITE** wires **MUST ALWAYS** be connected to LED Driver for proper operation

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## Wiring Diagram without Dimmer Switch



## Maintenance:

- Turn off the main power every 3 months, so as to let the battery operate a charging/discharging circle. This will help sustain the battery life.
- Check the emergency function with the push test button.



## Warranty

- Warranty 5 years.
- Except for the following circumstances:
  - 1) Improper installation or operation.
  - 2) Misuse.
  - 3) Abuse.
  - 4) Unauthorized or improper repair alteration.
  - 5) Accident or negligence in use, storage, transportation.
  - 6) Any natural acts.