

**Important:** Read all instructions prior to installation.

## LED Emergency Driver



BLD-YT08D-XXX

### Specifications

Model	BLD-YT08D-XXX
Operating Temperature	32°–122° F (0°–50° C)
Emergency Operation Duration	90 minute (minimum)

Check product label for specific electrical specifications related to installation. Improper installation will void warranty.

### Safety and Notes

#### READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- Do not join battery connector or turn “ON” the battery switch until installation is complete and AC power is supplied to the emergency driver.
- This product is intended for use with an emergency LED lighting load and supplies nominal power and a maximum voltage in emergency mode for a minimum of 90 minutes.
- An unswitched AC power source is required (120-277 VAC 50/60 Hz) to power these units.
- This product’s chassis must be grounded.
- This product is suitable for use in damp locations where the ambient temperature is 0° C minimum, to 55° C maximum. This product is also suitable for installation in sealed and gasketed fixture. This product is not suitable for heated air outlets and wet or hazardous locations. Maximum allowable case temp is 70° C. Refer to the below image for TC measurement location.
- This product contains a rechargeable LiFePO4 battery. The battery must be recycled or disposed of properly.
- Make certain all connectors are in accordance with the National Electrical Codes and any local regulations.
- This emergency LED driver is suitable for both factory or field installation. For field installation, please see the instructions on page 3.
- Do not install near gas or electric heaters.
- The use of accessory equipment is not recommended by the manufacturer and may cause an unsafe condition.
- Do not use this product for applications other than the intended use.
- Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- This device complies with part 15 of the FCC Rules. Operation is suitable to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may cause undesired operation.
- To reduce the risk of electric shock, disconnect both normal and emergency power supplies and place the battery switch in the “OFF” or disconnect the battery connector of the emergency driver before servicing.
- Do not attempt to service the battery. It is a sealed, no-maintenance battery that is not field replaceable. Contact the manufacturer for information on service.
- Servicing should be performed by qualified service personnel only.
- Emergency driver and standard driver must be on the same branch circuit.
- Driver output is Class 2 at the intended output voltage range.

### Testing

#### Manual Test

Test button can be held for manual testing purposes.

Note: A short-term discharge test may be conducted after the emergency driver has been charged for one hour. A 48-hour charging period must be required before conducting a long-term discharge test.



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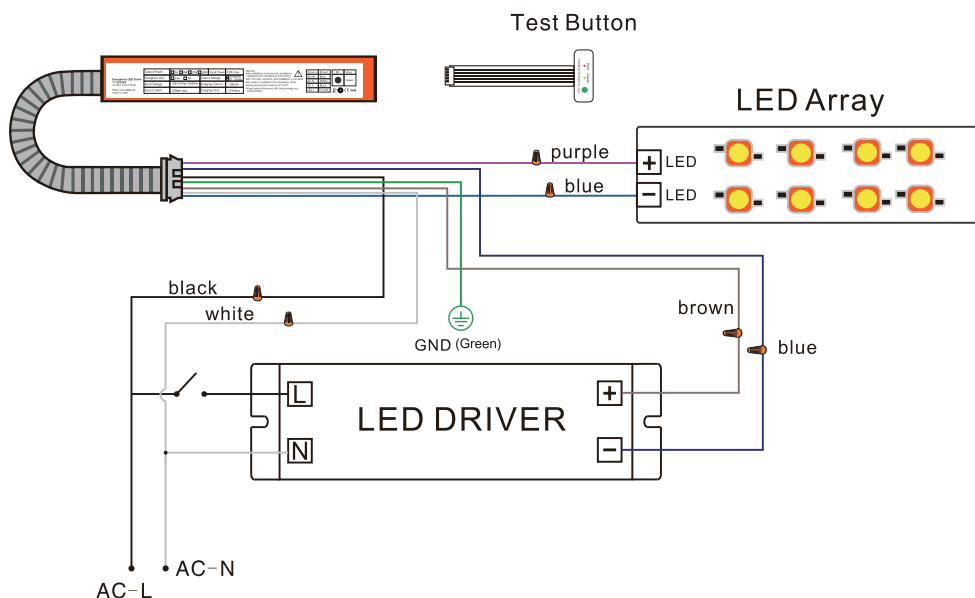
### Installation Checks

Before installation, make sure the necessary branch circuit wiring is available. An unswitched source of power is required. The emergency driver must be fed from the same branch circuit as the AC driver. This product should only be used for field installation with suitable LED loads. There are three checks to determine if your luminaire is eligible for field installation.

- The rated power of the LED load must be greater than or equal to the power output of the emergency LED driver to ensure that the LEDs will not be damaged when the system is in emergency mode.
- Verify that the forward voltage of the luminaire's LED array is within the limits of the emergency LED driver. The forward voltage of the LED array is commonly designated as Vf and should be found on the luminaire, in the luminaire specifications, or imprinted directly on the LED arrays. If multiple LED arrays are to be driven, verify that the total forward voltage is within the limits of the emergency driver.
- Ensure the output current of the LED driver does not exceed 8 amps. This is the current into the red/blue output wire.

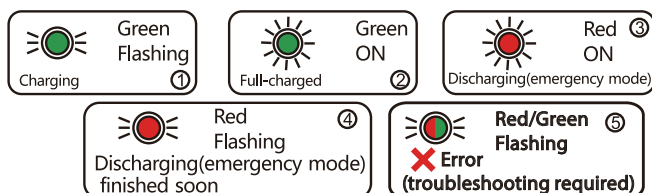
### Wiring Diagram

EMERGENCY DRIVER AND AC DRIVER MUST BE FED FROM THE SAME BRANCH CIRCUIT TYPICALLY. IT MAY BE USED WITH OTHER DRIVERS IF OUTPUT IS SUFFICIENT.



### Indicator Light Diagnostics

- Green/Flashing: charging
- Green/On: fully charged
- Red/On: discharging (emergency mode)
- Red/Flashing: discharging close to depleting battery charge
- Red & Green/Flicker: error (troubleshooting required)



### Test Switch Light Diagnostics

Press test switch to confirm emergency function is normal.



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### Installation

**CAUTION: DO NOT JOIN BATTERY CONNECTOR OR ACTIVE BATTERY SWITCH UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED TO THE EMERGENCY DRIVER.**

1. Disconnect AC power from the LED luminaire/driver.
2. Mount the emergency LED driver by the mounting tabs using appropriate screws (not provided).  
*Note: If the application requires the emergency LED driver to be mounted on top of the luminaire, flexible metal conduit should be used over wiring.*
3. Mount the supplied illuminated test switch in a location that is visible and accessible by maintenance personnel.  
*Note: The switch mounts through a hole which will need to be added to the luminaire or nearby structure.*
4. Wire the test switch according to the wiring diagram. If wired correctly, the test switch indicator light should be on when AC power is supplied to the fixture, and the battery switch would be on indicating that the emergency inverter battery is charging.
5. Connect the emergency driver to the AC driver and LED load according to wiring diagram. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
6. After installation is complete, supply AC power to the emergency driver. At this point, power should be connected to both the AC driver and the emergency driver, and the charging indicator light should be illuminated indicating the battery is charging.

