Emergency LED Driver Installation Instructions

L4-A

Class 2 Output (Only for nominal voltage series 15 -50 V)

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UL LISTED E506473

Power Engage Technology

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. **CAUTION-** This emergency driver provides more than one power supply output source. To reduce the risk of electrical shock, disconnect both normal and emergency source by turning off the A.C. branch circuit.
2. **CAUTION-** Servicing of this equipment should be performed by qualified personnel only.
3. **CAUTION-** Do not attempt to service the battery. A sealed, no-maitenence battery is used that is not field replaceable. Replace the entire unit when necessary.
4. **CAUTION-** The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition, void warranty, and result in non-compliance with UL specifications.
5. **CAUTION-** The emergency driver requires an un-switched AC power source of **100-277VAC** , 50/60Hz. **Verify the correspondent electrical rating at the LED fixture before servicing**. Both of the electrical rating will supply power under an output voltage of 15~50VDC in emergency mode for at least 90 minutes.
6. **CAUTION-** Battery pack should be charged for 24 hours every 6 months during storage.
7. Battery in this unit may not be fully charged. After electricity is connected to the unit for at least 24 hours, then normal operation of this unit should take effect.
8. For use in 5°C minimum, 50°C maximum ambient temperatures. Suitable for use in damp locations and plenum spaces.
9. Flexible mental conduit is optional, depend on installation environment.
10. The emergency driver should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
11. Do not use this equipment for anything other than its intended use. Equipment only use for LED Lighting emergency backup.
12. Do not mount near gas or electric heaters. Do not let power supply cords touch hot surfaces.
13. Do not make or leave any other open holes in the wiring enclosure or electrical component enclosure during installation.
14. This fixture is for use with grounded, UL Listed, this model can use in damp location. Not for use in heated air outlets or hazardous locations.
15. The emergency driver have battery inside, forbidden for insulation voltage(I/P-O/P) test.
16. Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
17. The equipment is intended for ordinary locations and for permanent installation into one or more Listed emergency luminaires.
18. Maximum installation height: 22 feet.
19. Do not use outdoor.

The luminaire rated data and maximum mounting height can be found as follows:

1. Determine the fixture efficacy under normal AC operation, based on fixture manufacturer published data in lumens per watt (LM/W).
2. Reference DLC QPL (www.designlights.org) and Energy Star QPL (www.energystar.gov) for rated data on fixture efficacy.

If fixture is not found on DLC or Energy Star Qualified Product List, contact fixture manufacturer.

3. Multiply fixture LM/W by rated output power of emergency pack Example ‘model L4-A 4W * 100 Lumens per W= 400 Lumens .

Caution: Before Installation, Make Certain The A.C. Power is Off !

STEP 1: INSTALLING THE EMERGENCY LED DRIVER

1. Turn off the AC power before installing.
2. Test switch and indicator light shall be installed where can be seen depending on the application.
3. Determine appropriate location for emergency driver on the fixture or using brackets to fix emergency driver on the fixture. The installation instruction of LED luminaire may provide guidance on mounting location.

STEP 2: WIRING THE EMERGENCY DRIVER

1. Select the appropriate wiring diagram to connect the emergency driver to the AC driver. For other diagrams, consult the manufacturer.
2. Using wire nuts to cover unused wires and make sure all connections are in accordance with the NEC and any local regulations.

STEP 3: TESTING -

1. After wiring is complete, check if the indicator light lights or not , which will indicate the battery's charging situation.
2. The battery in this unit may not be fully charged. A short-term discharge test may be conducted after the emergency driver has been charging for 1 hour. Charge for 24 hours before conducting a long-term discharge test.

System Wiring Diagrams

For additional wiring diagrams including diagrams for Color and Wattage selectable luminiares, provide the ac driver model number and wiring detail for appropriate diagram.
Contact Tech Support.
877-774-4775

Figure A- Wiring for LED Loads less than 30 W (AC Driver < 1A)

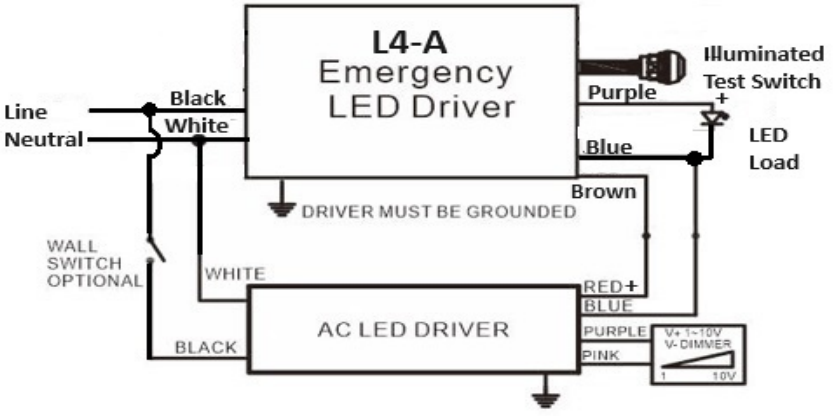
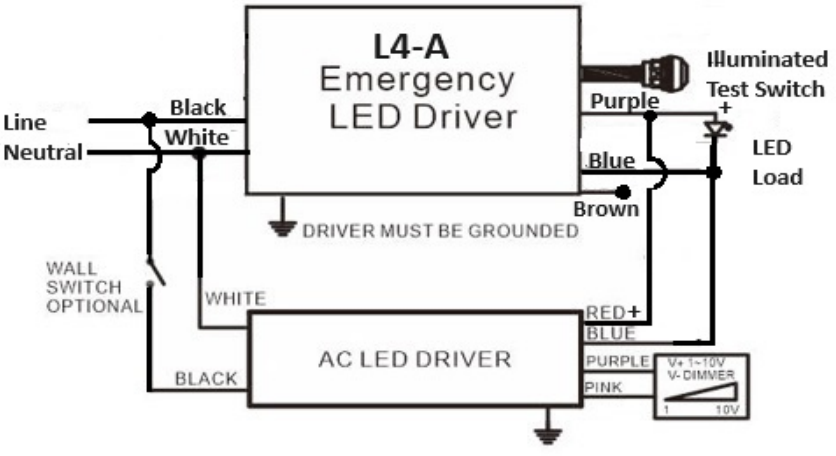


Figure B- Wiring for LED Loads greater than 30 W (AC Driver > 1A)



Power
Engage
Technology

WARNING
Risk of Electric Shock

Note: This unit does not have a battery engage connector. The Power Engage Technology feature allows this unit to remain in sleep mode by pressing the test switch during emergency mode to disconnect the internal battery circuit. Apply AC power source to activate the L4-A for normal operation.