



Compact size 0/1 - 10 VDC dim



FEATURES

- UL Listed for US and CANADA
- Listed to UL924 and tested to CSA C22.2 NO.141 Field or factory installation
- Low energy consumption CEC Title20 compliance
- Self-testing
- Battery:Over Charge Protection
Over Discharge Protection
Short Circuit Protection
- Super Mini emergency led driver
- For wiring to the led driver's DC output

SPECIFICATIONS

- Input Voltage:100~277Vac,50/60Hz
100~347Vac,50/60Hz
- Input Current:100mA max.
- Recharge Power:5W max.
- Output Voltage:15~58Vdc/50~150Vdc
- Emergency Power:4W
- Recharge Time:24Hrs
- Discharge Time:1.5H
- Warranty:5 Years
- Battery:Li-ion/LiFePO₄
- Ambient Temp:Li-ion: 41~122°F(5~50°C)
LiFePO₄:41~140°F(5~60°C)
- Weight:0.42 lbs(0.19kg) max.
- Surge Protection:Live-Neutral 3KV

SPECIFICATION CHART

D1- 100-277 AC input

D2- 100-347 AC input

Models	EM Power	Battery	Part Number Matrix
LMDP-HP04058-D1-U1	4 Watts	Li-ion: 3.6V/2550mAh(1S1P)	EMY-WWVVVDO-YY
LMDP-HP04150-D1-U1			<ul style="list-style-type: none">• WW = Emergency Power: 04=4W• VVV = output voltage: 058=15-58Vdc, 150=50-150Vdc
LMDP-HP04058-D1-U3		LiFePO4: 3.2V/3200mAh(1S2P)	<ul style="list-style-type: none">• YY = battery: U1=Li-ion, U3=LiFePO4
LMDP-HP04150-D1-U3			

SELF-TESTING

The integrated Self- Diagnostic circuitry will automatically conduct monthly 30-second and annual 90-minute tests to verify proper emergency capability per Life Safety Code requirements. NFPA 101, Life Safety Code Outlines the following schedule:

- **Monthly-** During AC mode, the system conducts a (30)seconds self-discharge test of the emergency led driver every 30 days. And automatically restore to normal charging after (30)seconds dis-charged.
- **Annually-** During AC mode, the system conducts a (90)minutes self-discharge test of the emergency led driver every 365 days. And automatically restore to normal charging after fully dis-charged.

INSTALLATION MANUAL

!!! IMPORTANT SAFEGUARDS !!!

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTION SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING

READ AND FOLLOW ALL SAFETY INSTRUCTION

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-maintenance 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 or **100-347VAC**, 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 15~150VDC 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 metal 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. Do not use outdoor.

LUMEN OUTPUT DURING EMERGENCY OPERATION

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 EMY-04050DO-YY' is $4\text{ W} \times 100\text{ LM/W} = 400\text{ Lumens}$



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

STEP1: INSTALLING THE EMERGENCY LED DRIVER

- > Turn off the AC power before installing.
- > Test button and indicator light shall be installed where can be seen depending on the application.
- > Determine appropriate location for emergency driver in the fixture or using existing mounting holes in the fixture. The installation instruction of LED luminaire may provide guidance on mounting location.

STEP2: WIRING THE EMERGENCY DRIVER

- > The emergency driver and A.C. driver must be on the same branch circuit.
- > Select the appropriate wiring diagram to connect the emergency driver to the AC driver. For other diagrams, consult the manufacturer.
- > Using wire nuts to cover unused wires and make sure all connections are in accordance with the NEC and any local regulations.

STEP3: TESTING

- > After wiring is complete, check if the indicator light lights or not, which will indicate the battery's charging situation.
- > **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.

SAVE THESE INSTRUCTIONS



THIS PRODUCT CONTAINS A RECHARGEABLE LITHIUM-ION BATTERY. THE BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY TO PREVENT FIRE.

WIRING DIAGRAM

FIG A. FOR LED LUMINAIRE < 50W AND < 1A LED DRIVER CURRENT.

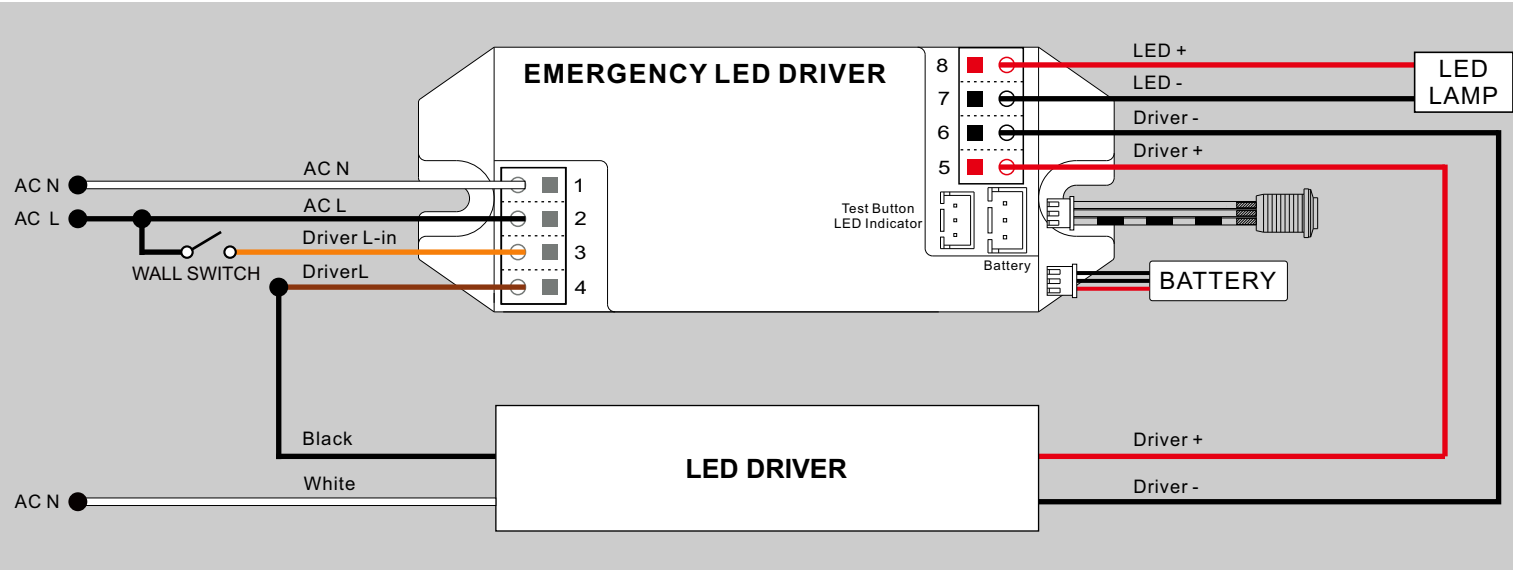
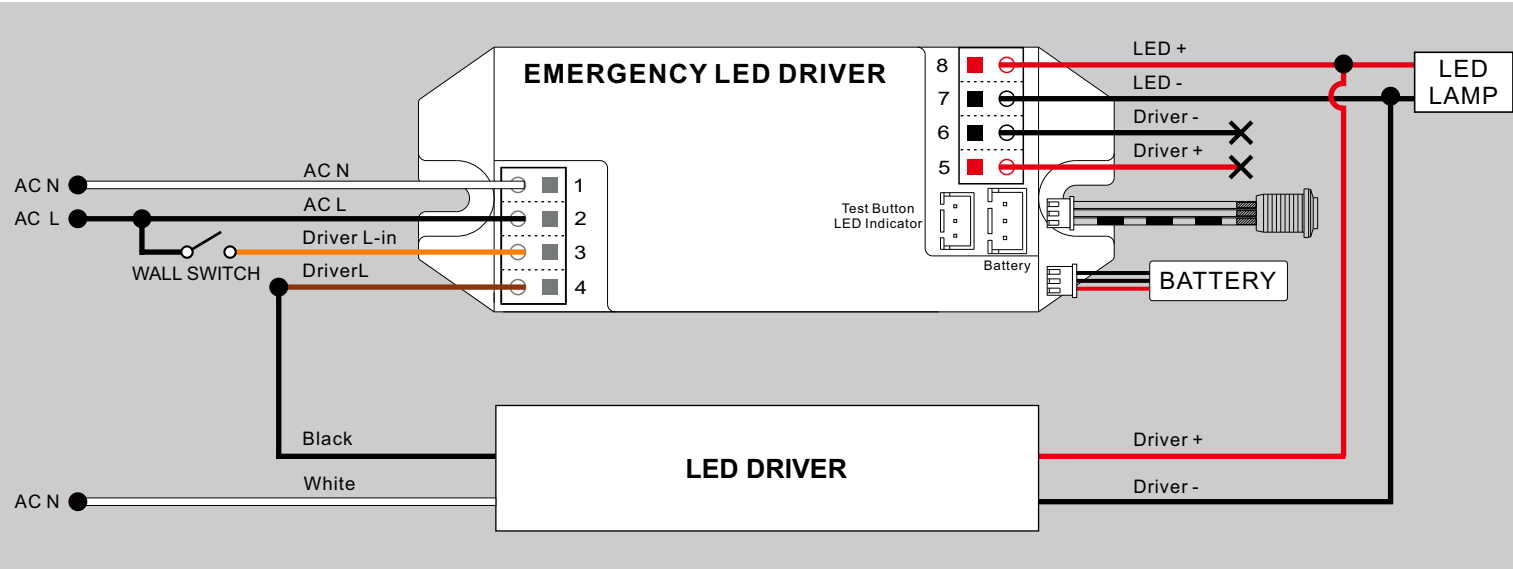
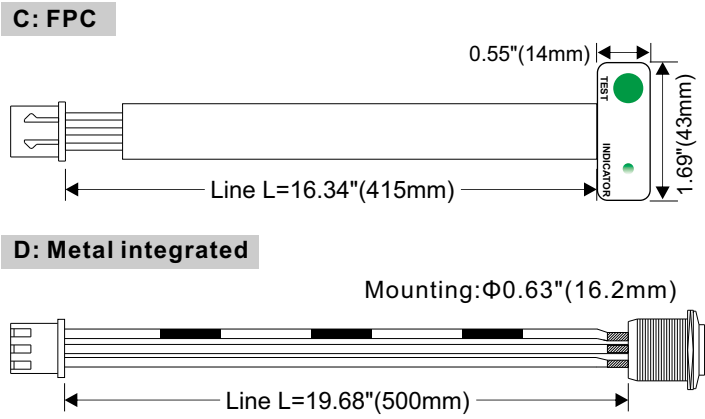
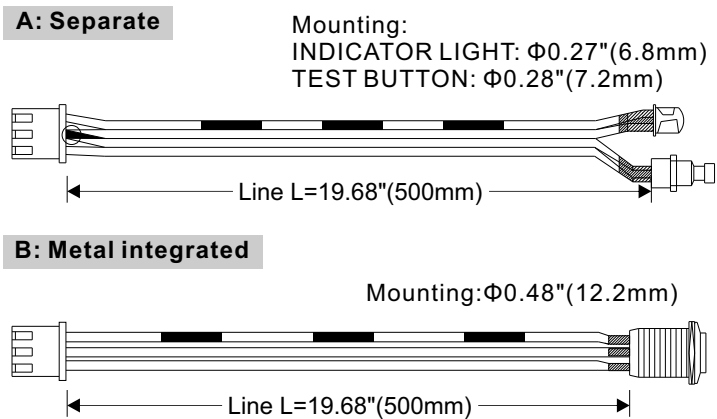


FIG B. FOR LED LUMINAIRE > 50W or > 1A LED DRIVER CURRENT.



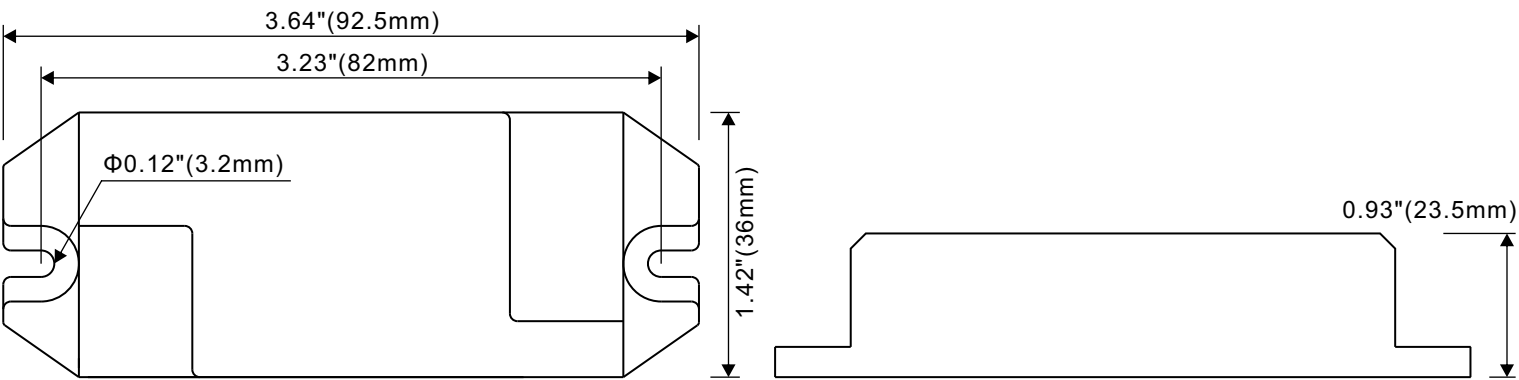
ACCESSORIES

Indicator light & Test Button

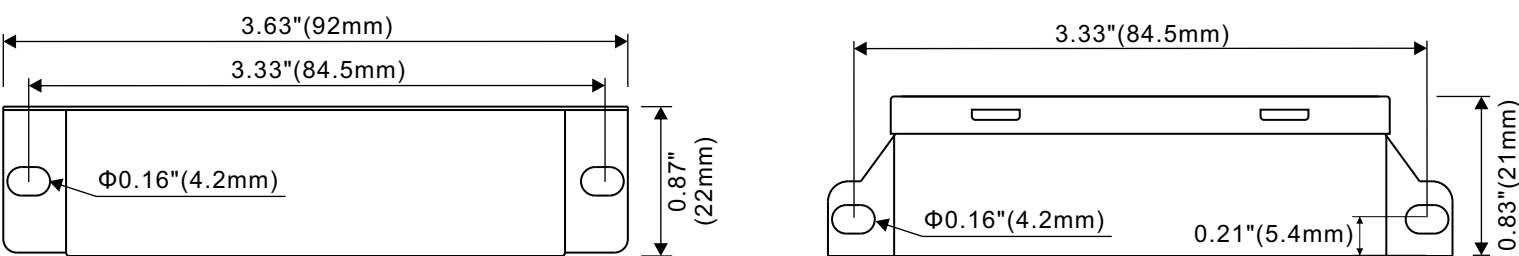


DIMENSIONS

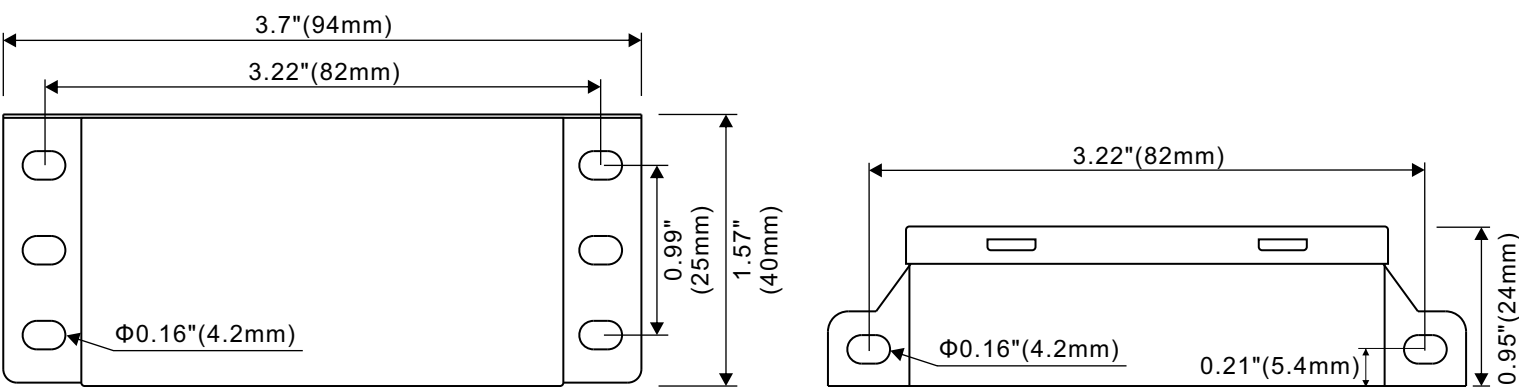
DRIVER: L 3.64"(92.5mm)*W 1.42"(36mm)*H 0.93"(23.5mm)



BATTERY: Li-ion L 3.63"(92mm)*W 0.87"(22mm)*H 0.83"(21mm)



BATTERY: LiFePO4 L 3.7"(94mm)*W 1.57"(40mm)*H 0.95"(24mm)



OPERATION(INDICATOR STATUS)

Mode	Test Button	Indicator Status	Comment & Solutions
AC MODE (1)	NO Pressed	ON(no flashing)	Emergency Driver is charging
AC MODE (2)	Holding Pressed	ON(no flashing)	Emergency Driver is conducting a emergency test, once release the test button, emergency led driver restore to normal charging mode.
EMERGENCY MODE	NO Pressed	OFF	Emergency Driver is conducting a long-term emergency test until battery is fully discharged
WARNING Risk of Electric Shock		Note: Please press once test button to make certain the battery is turned off, before installation, maintenance, storage or shipping.	