E2 Lighting International Inc.

Project Name: _____ Catalog Number: _____

Notes: _____ Fixture schedule: _____

Emergency LED Driver backup

E2-EM-10W

PRODUCT Description

The emergency driver offer 10W power for LED lamps with external driver. There will be more than 1.5 hour emergency power supply during power off. It can be used in public places to ensure LED lights work normally even when power outages which caused by earthquake, fire, electric circuit malfunction etc. This driver would not affect its surrounded environment and power when it works.

FEATURES

* High output voltage 24V ~ 150V DC
* Constant ouput power 10W
* Self-testing Monthly & Annually
* Battery:Over Charge Protection & Over Discharge Protection
* LiFePO4 battery.
* Easy wiring with LED driver with quick connectiors
* UL Listed

SPECIFICATIONS

Model Number	E2-EM-10W
Input Voltage	AC120-347Vac
Emergency Power	10W @ 90 mins
Battery	LiFePO4 6.4V 3600mAh
Recharge Power	5W
Output Voltage	24-150V DC
Recharge Time	24 Hrs
Ambient Temp	0-65°C
Surge Protection	Live-Neutral 3KV
Warranty	5 Years

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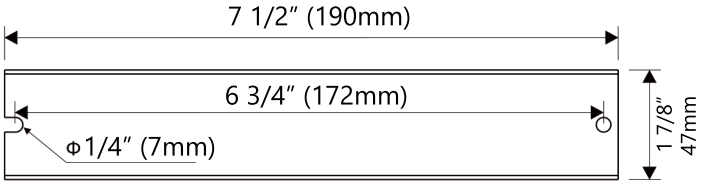
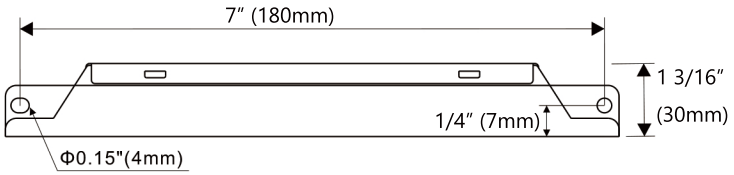
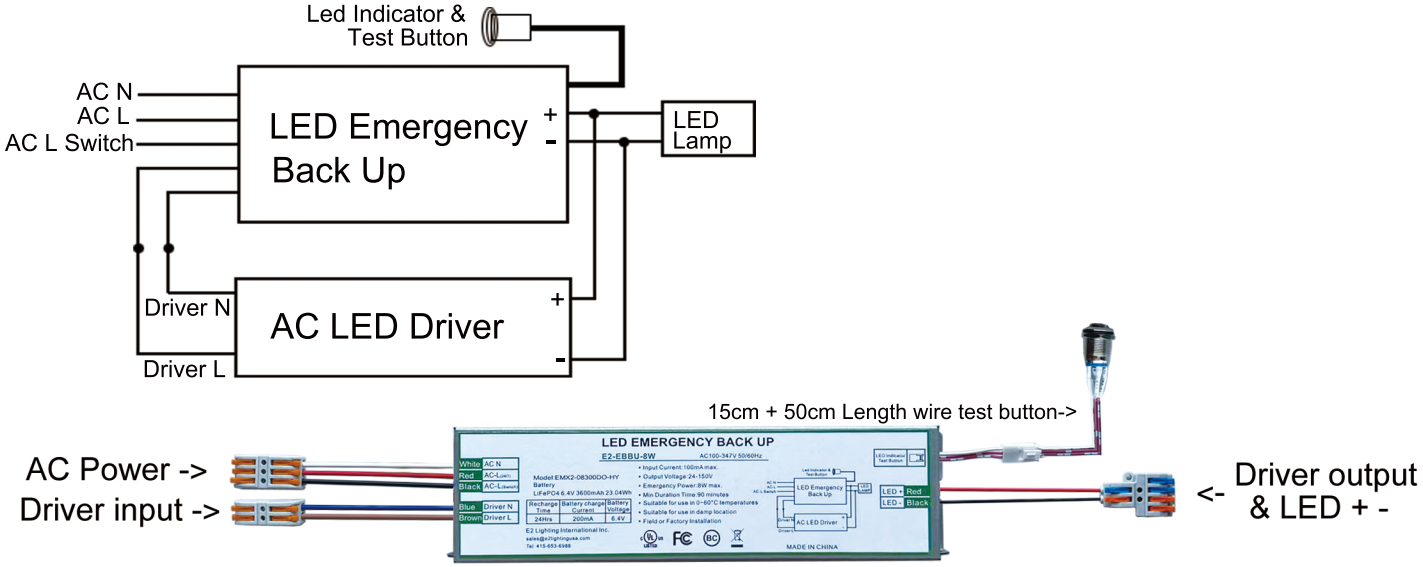
DIMENSION

L 7 1/2" (190mm) * W 1 7/8" (47mm) * H 1 3/16" (30mm)





WIRE DIAGRAM



SELF-TESTING

The integrated Self- Diagnostic circuitry will automatically conduct monthly 30-second and annual long discharge test to verify proper emergency capability per Life Safety Code requirements.

- ***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 state after (30)seconds.
- ***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.

OPERATION(INDICATOR STATUS)

Mode	Test Button	Indicator Status	Comment & Solutions
AC MODE 1	NO Press	ON	Emergency Driver is charging
AC MODE 2	Holding Press	ON	Emergency Driver is conducting an emergency test. Once release test button, the Emergency Driver restore to normal charging mode.
EMERGENCY MODE	NO Press	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.**		

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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 o ffthe A.C. branch circuit and by disconnecting the battery on/o ffconnector.
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 specifications.
5. **CAUTION-** The emergency driver requires an un-switched AC power source of **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 10-58/50-300VDC in emergency mode for at least 90 minutes.
6. **CAUTION-** Battery pack should be charged for 24 hours every 6 months during storage.
7. **CAUTION-** Disconnect the battery pack before shipping and storing.
8. 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.
9. For use in 0°C minimum, 60°C maximum ambient temperatures.
10. When use soft panel test button with glue on the backside,pls paste on the visible palce with smooth and clean surface.
11. The emergency driver should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
12. For led fixture power higher than or equal to rating of the emergency driver emergency batterypack .
13. Do not use this equipment for anything other than its intended use. Equipment only use for LED Lighting emergency backup.
14. Do not mount near gas or electric heaters. Do not let power supply cords touch hot surfaces.
15. Do not make or leave any other open holes in the wiring enclosure or electrical component enclosure during installation.
16. The equipment is intended for ordinary locations and for permanent installation into one or more Listed emergency luminaires.
17. Do not use outdoor.

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

STEP 1: INSTALLING THE EMERGENCY LED DRIVER

> Make certain the A.C. power is off.

> Indicator light and test button should be mounted where can be seen by the maintenance personnel.

> Determine appropriate location for emergency driver in the fixture. Install the emergency driver to the fixture using existing mounting holes in the fixture. The installation instruction of LED luminaire may provide guidance on mounting location.

STEP 2: WIRING

> Select the appropriate wiring diagram as reference. For other diagrams, consult the manufacturer.

> Make sure all connections are accordance with any local regulations.

> Connect the mounting holes to the A.C. driver and LED load in accordance with manufacture's installation instructions.

STEP 3: TESTING

> After wiring is completed, switch the A.C. power on. Then the charging indicator light should be illuminated, which indicate the battery is charging.

> The battery in this unit may not be fully charged. A short-term discharge test may be conducted after the mounting holes has been charging for 1 hour. Charge for 24 hours before conducting a long-term discharge test.

SAVE THESE INSTRUCTIONS

c UL US LISTED

BC MEETS CEC ENERGY EFFICIENCY STANDARDS

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

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