

LED EMERGENCY DRIVER



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NEXLITE PRODUCTS

INSTALLATION INSTRUCTION



LED EMERGENCY DRIVER

Dear user:

Firstly, thank you very much for choosing our emergency driver. Ensuring you to use this emergency driver safely and correctly, please read the following instruction carefully.

I. Introduction:

This emergency driver is suitable for all 3-40W LED lamps with external driver. It can be used in public places to ensure LED lights work normally even when power failures come which may be caused by fire, earthquake, electric circuit malfunction etc. This emergency driver would not affect its surrounded environment and power when it works.

II. Structure and operating principle:

Operating principle: the emergency driver is under charging mode when AC power works, Once it is fully charged, the circuit will protect the battery from over charging, and the emergency driver will be on standby mode. When power failures come, it will supply power to the LED light for continuous lighting, therefore people can have enough time and brightness for escaping and dismissing in order.

III Technical Term:

Main Power Status---working status of LED lamp and emergency driver when AC power is on.

Emergency Status---working status of LED lamp and emergency driver when AC power is off.

Switch time from main power status to emergency status---the time needed for emergency driver to supply power when AC power is off

III. Main features:

Working Voltage	AC85V-265V 50/60Hz	Battery	Lithium battery, 3.7V 2400mAh
Switch Time of Emergency	< 2s	AC	1A 250V
Output Power	3-40W	DC	5A 250V
Emergency Time	>120min	Working Temperature	-10°C~55°C
IP Rank	IP30	Luminous Flux	>100lm
Type of Lamp	LED Lamp	Dimension	135×55×21mm

V. Battery and light source:

Warning: As the inner PCB has 220V/50HZ high voltage, it can ONLY be disassembled by professional technician.

1. **Battery:** Please replace the battery when the emergency time is less than 100 minutes after being charged for 24 hours or have battery leakage situation. When replacing battery, cut off the main power, take apart the lamp, remove the battery plug and replace the old one with a new battery of the same specification. Normally, the lifespan of battery can reach more than 3 years.

Note: The positive pole and negative pole of battery must not be connected reversely, if connected together directly which will cause short circuit. Explosion will be caused if using unmatched battery. Please abide by local rules when discarding old battery.

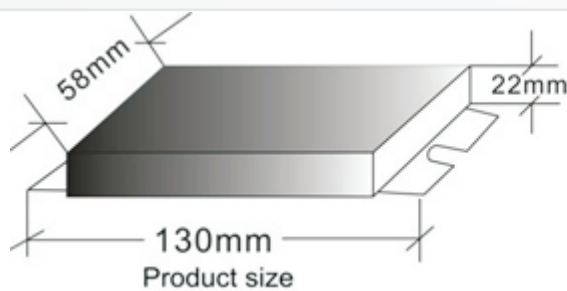
2. **Light source:** 3-40W LED lamps with external driver, please replace the same light source if light source is not light or its brightness is not enough.

VI. Usage and Maintenance:

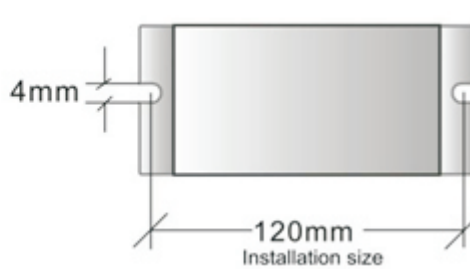
1. Before installation, please read this instruction carefully.
2. Suitable installation place: stairs, corridor and the ceiling, please kindly noted that outdoor environment is prohibited.
3. The main power of this LED lamp should be controlled independently, NOT by the switches of other lamp.
4. Please note that the working voltage of LED lamp should be 85V-265V AC power 47-63Hz. The emergency driver will be destroyed if connected to 380V high voltage.
5. If its indicating lights can't work as usual, the main power should be cut off immediately and get it repaired.
6. Meaning of light color: Green--main power status; Red--charging status; Blue--emergency status.

VII. Installation and Debug:

1. This emergency driver is surface mounted type, with two screw holes. Putting a tapping screw of 4MM on the surface, then fix the emergency driver.



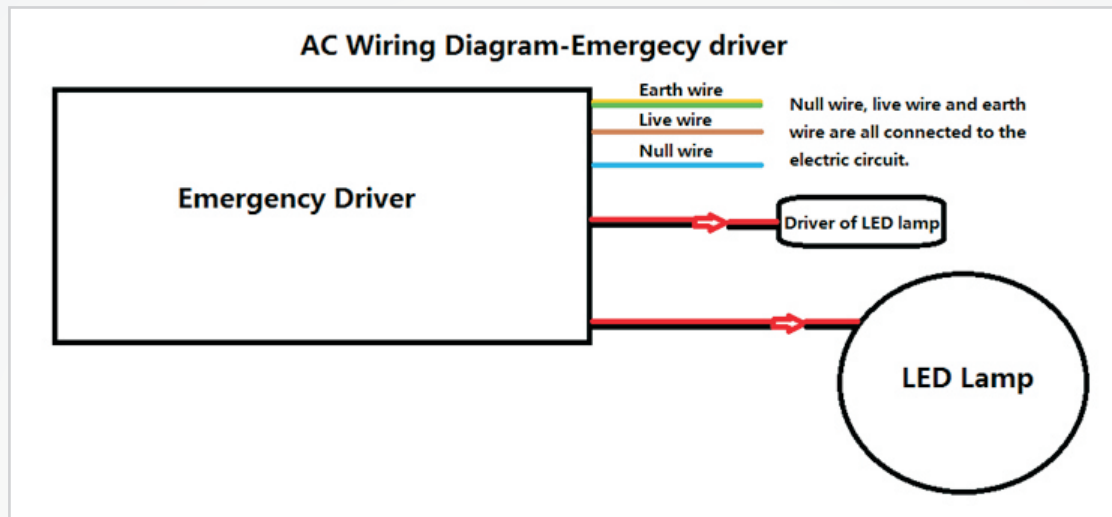
Picture 1



Picture 2

Note: Picture 1 is the size of product; and the distance between two installation holes is 120mm, just as picture 2 shows.

2. It must be connected strictly according to the below wiring diagram.



3. When connecting to AC power, green indicating light will be on. At the same time, red indicating light will be on also until it is fully charged.

Press the test button, the emergency driver will enter the emulation mode of power failure. The indicating light of main power (green) and charging (red) will be off, while the emergency indicating light (blue) is on, which is in emergency status, and the LED lamp will be lighting, but the brightness will be weakened. Then release the button, it will return to main power status again.

4. Turn off the emergency driver input switch, the LED lamp will be on emergency status.

5. Under emergency status, cut off the LED lamp's connection to the emergency driver, then emergency driver will stop supplying power to the LED lamp, the emergency indicating light will be off.

Make sure each of the above steps are followed strictly and the debug are works exactly the same as it mention above.

6. Keep a record of maintenance for the emergency driver.

7. Check the emergency driver regularly to ensure its lifespan and usage.

VIII. Solution for problems:

Problems	Analysis	Solution
1.Green light not working	1. Driver problem	Check the driver
	2.green light is broken or circuit is disconnected	Check the circuit or replace green light
2.Red light is off	1.not being charged	Check the charging circuit or battery
	2. red light is broken or circuit is disconnected	Check circuit or changing red light
	3.Battery is fully charged	Disconnect the main power supply for 30 minutes, then enter to the main power status again
3.Blue light is off1.	1.The battery is in open circuit	Check the battery
	2.Light source is in open circuit or short circuit	Ensuring light source is connected correctly
	3.PCB is broken	Checking and maintaining the PCB

IX. Package, shipping and storage:

1. Quantity and specification, please find it on the outside carton.
2. Open the box and check whether the emergency driver are all good. If broken, please do not use and send back to the factory for repairing.
3. If the emergency driver have not been used for over 3 months, please connected to AC power for full charging and discharging (until LED lamp is completely off). Then keep the emergency driver on main power for 24 hours and store it in a dry and ventilated place. Connecting method: Please find the WIRING DIAGRAM on the surface of emergency driver.

Note: For your safety, please do not disassemble the emergency driver if you are not the professional technician.



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