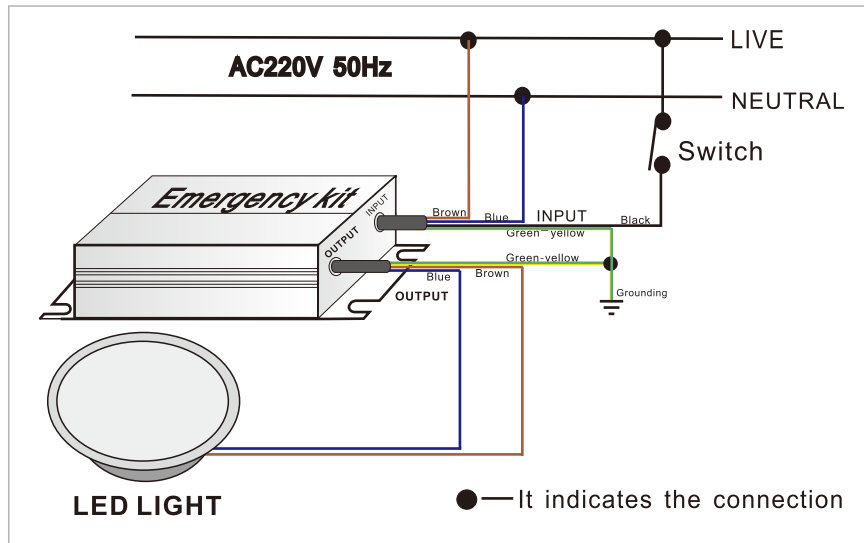


LUMIPRO

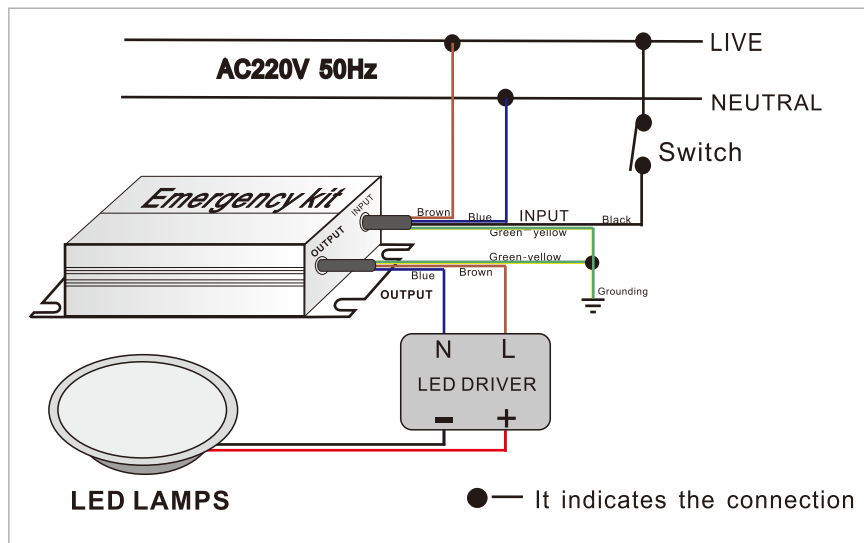
X. WIRING DIAGRAM:

Please find the WIRING DIAGRAM on the surface of emergency driver itself or follow th below ones:

A. WIRING DIAGRAMS (Drive internal)



B. WIRING DIAGRAMS (Drive external)



Should you have any questions on usages, please contact your supplier at anytime.

LUMIPRO

**LED
EMERGENCY
DRIVER**

INSTRUCTION

50-300W



CE RoHS

I. INTRODUCTION:

Thank you for using our emergency driver which owns perfect design, high quality material and wide usage. Ensuring you to use this emergency driver safely and correctly, please read and understand the following instruction.

The emergency driver complies with the IEC standard, it is suitable for all 50-300W LED lamps with internal IC driver. It can be used in public places to ensure LED lights working normally when power fails suddenly because of fire, earthquake and etc. It would not influence the surrounding environment and power when working.

This emergency driver has obtained a patent for appearance and a patent for the use of new models, please do not copy at will.

II. STRUCTURE AND OPERATING PRINCIPLE:

The housing of emergency driver adopts good quality steel with powder coating. It is of novel appearance and light weight and convenient to be installed. It mainly includes housing, PCB, battery, etc. The battery adopts Li-ion battery with long life-span. The PCB adopts automatic SMT technology, using IC control design on charging / discharging and power supply parts. And the PCB cores are TDN258828NJH and 3525 IC chips, which is for emergency light and Li-ion battery protection. The PCB circuit has a complete protection designs on over charging / discharging, output short circuit, open circuit, input/output reverse connection.

The operating principle: emergency driver is being charged when AC power works, after fully charged, the circuit will protect the battery from over charging, and the emergency system switches into stand by mode. The battery will switch into emergency mode and supplies emergency power to the LED light while the AC power fails.

III. MAIN FEATURES:

Working voltage	AC85V-265V	Battery	Li-ion 18650 22.2V	IP rank	IP30
Changing time of emergency	≤ 2s	AC fuse	5A 250V	Luminous flux	≥ 1000LM
Output power while emergency	50-300W (Max:330W)	DC fuse	20A 50V	Type of lamp	LED Lamp
Emergency time	180-60mins (Depend on lights power)	Working temperature	-10℃-50℃	Size	385*135*80mm 325*135*80mm

6. Meaning of light color: Green-AC power status; Red-charging status; Blue -battery failure/overload

IV. BATTERY AND LIGHT SOURCE USAGE AND REPLACEMENT:

Warning: as the inner PCB includes 220V/50HZ high voltage, so it must be unloaded /opened ONLY by professional technicians.

1. Battery: in normal occasion, please replace the battery when discharging time is less than 40 minutes after being charged for 24 hours or there is battery leakage. While replacing battery, cut off the AC power, take apart the light, remove the battery plug and replace the old battery with a new one with the same specification. Usually the battery can last for more than 3 years.

The positive and negative of battery should not be connected reversely, and please don't short-circuit the battery. Explosion would be caused if using unmatched battery. Please follow the local rules when discarding the old battery.

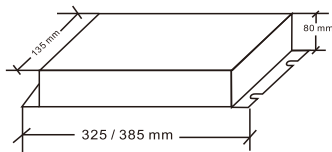
2. Light source: for 50-300W LED lamps with internal IC driver, please replace it with the same light source if the old light source is broken or its brightness is not enough. The brightness in emergency status is the same as it in AC power status.

V. INSTALLATION USAGE AND NOTES:

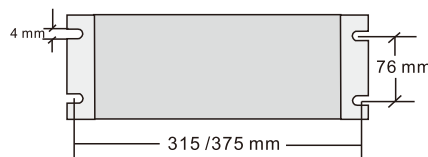
1. Please read and understand this instruction carefully before installation.
2. Usually it should be installed at stairs, corridor and the ceiling, not for outdoor.
3. The AC power supply of this emergency driver should be controlled by an stand-alone light switch. It should NOT influenced by the other light switches.
4. Please note the working voltage is AC85V-265V, 47-63Hz. It would be broken if connect to the 380V high voltage.
5. If the indicating lights can't work as usual or the LED light doesn't work after turned on the light switch, please cut off the AC power immediately and check the emergency driver.

VI. INSTALLATION ,TEST AND MAINTENANCE:

1. The emergency driver is surface-mounted type, which has two installation holes. Putting a tapping screw of 4MM on the surface according to the installation size, and fix the emergency driver. It can be on the surface of the fuel material.



Picture1



Picture2

2. Picture 1 is the size of product; and the distance between two installation holes is 76mm as picture 2 shows.

3. It should be connected according to the wiring diagram on the emergency driver's surface strictly.

4. When connecting to AC power, please check if the LED light works normally, at this moment, the green indicating light is on. Meanwhile, red indicating light would be on too, until the battery is fully charged.

5. Press the test button, the emergency driver enters the status of simulation of power failure. At this moment, the indicating light of main power (green) and charging (red) are OFF. After loosed the button, it will return to AC power status.

6. If cut off the input of emergency driver, the LED lamp will switch into emergency status. When the battery fails or the output load exceeds the rated power, the fault indicator (blue) will light up until the fault is removed.

7. If cut off the LED lamp's connection with the emergency driver in emergency status, the emergency driver will stop supplying power.

8. Press and hold the test button for 10 seconds to turn off the emergency output mode.

9. After tested the above steps and ensured all are normal, the installation could be finished.

10. While in the environment of 3 phases 4 wires, the Live wire of the LED light switch and the input Live wire of emergency driver must be at the same phase.

11. Please keep a record of inspection and maintenance on the emergency driver and LED lamp to ensure its lifetime and usage.

VII. SOLUTION FOR PROBLEMS:

Problems	analysis	Solution	remark
1.Green light not working	1.Something wrong with driver	Check driver.	
	2. green light is broken Or circuit is disconnected	Check circuit or changing green light.	
	1.not being charged	Check the charging circuit or battery.	
2.Red light is off.	2. red light is broken or circuit is disconnected	Checking circuit or changing red light.	
	3.Battery is fully charged	Disconnecting the main power supply, make the LED light work in emergency status for 30 minutes, make the LED light return to work in AC power status again.	
	1.The battery is open circuit or the battery is broken	Checking battery.	
3.Blue light is on.	2.LED light power is more than rated power.	Reduce the LED light power to less than 300W.	
	3.The LED light is not matched.	To use the LED light with IC driver.	

VIII. OUTPUT PROTECTION FUNCTION:

1. When the load exceeds 20% of the rated power, the fault light (blue) will light up, and the output will be cut off after a delay of 60 seconds.
2. When the load exceeds 50% of the rated power, the fault light (blue) will light up, and the output will be cut off after a delay of 10 seconds;
3. When the load exceeds 100% of the rated power, the fault light (blue) will light up, and the output will be cut off after a delay of 0.1 seconds;

IX. PACKAGE, SHIPPING AND STORAGE:

1. Please find quantity and specification on the signs of package.
2. Please check if there is any broken emergency driver in the carton, and don't use any broken ones or out-of-shaped ones. If found any, please contact the supplier for a replacement.
3. If the emergency driver is not used for over 3 months, it should be connected to the AC power for full charging and discharging (after charging the battery for 24 hours, and discharge the battery until LED lamp is completely OFF). Then keep the emergency driver working with AC power for 24 hours and put it in a dry and ventilated place.

Strong Reminder: If you are not professional technician, for your safety:

DO NOT operate this device,

DO NOT open this device.