

Installation Instruction

Your Excellency,

Firstly, 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.

I . Introduction:

This emergency driver accords with GB17945-2010, it is suitable for all 3-40W LED lamps with external driver. It can be used in public places to ensure LED lights work normally when power failures suddenly because of fire and earthquake and etc.. This emergency driver would not influence its environment and power around when it works.

II . Structure and operating principle:

The lamp housing of this emergency driver adopts good-quality aluminum and flame-retardant plastic. It has novel appearance and low weight and being convenient to install, so you can rest assure its safety. It mainly includes housing, side cover, input & output wire, PCB and battery etc. Its battery adopts Li-ion battery with long lifespan. Its PCB adopts SMT technology, using IC control design in charging/discharging and power supply part.

PCB uses fully automatic SMT technology, PCB core use PN8355,WD01 and M8205A IC chips which are especially for emergency lights and Li-ion battery protections. PCB circuit has the complete protection designs for over charging/discharging.

Operating principle: the emergency driver is being charged when AC power works, when fully charged, the circuit will protect the battery from over being-charged, and the emergency is standing by as soon as the battery is fully charged. It will be changed to supply power when power failures and make the LED lights work and light up the way to escape and dismiss in order.

III . The symbol of its model:

☐-LED-F1A

☐ : enterprise code,

LED: suitable for LED lamps,

F: for export, 1: first version, A: 2400Mah battery

IV. Technical Term:

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

Emergency Status---working status of LED lamp and emergency driver when AC power failures

Changing time to emergency---time needed for emergency driver to supply power when AC power is off

V . Main features:

Working voltage	AC85V-265V 50Hz	battery	3.7V 2400mAh	IP rank	IP30
Changing time of emergency	<2s	AC fuse	1A 250V	Luminous flux	> 100lm
Output power	3-40W	DC fuse	5A 250V	Type of lamp	LED lamp
Emergency time	> 120min	Working temperature	-10°C—55°C	size	135×55×21(mm)

VI . Battery and light source

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

1. Battery: in normal occasion, please change battery when discharging time is less than 100 minutes after being charged for 24 hours or battery leakage. When changing battery, Cut of the main power, take apart the lamp, removing the battery plug and replace the old one with a new battery of same specification ,then the driver will be OK. Usually the lifespan of battery can be more than 3 years.

Note: The positive and negative of battery should not be connected reverse, and we should avoid directly short-circuit the battery. Explosion will be caused if using unmatched battery. Please abide by local rules when discarding old battery.

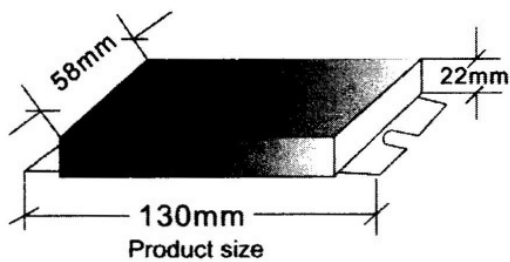
2. Light source: 3-40W LED lamps with external driver, please change to the same light source if light source is broken or brightness is not enough.

VII . Usage and Notes

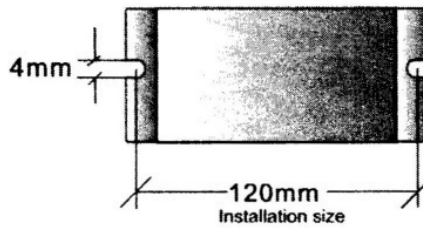
1. Before installation, please read and understand this instruction carefully
2. Usually it should be installed at stairs, corridor and the ceiling, except outside environment.
3. The main power supply of this emergency driver should be controlled by the light's switch, NOT influenced by the other switches.
4. Please note that its working voltage is 85V-265V AC power 47-63Hz. It would be broken if connected with 380V high voltage
5. If its indicating lights can't work as usual, the main power should be cut off immediately and maintain the emergency driver.
6. Meaning of light color:
7. Green-main power status; Red-charging status;
Blue emergency status

VIII . Installation and Maintenance

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



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 should be connected according to the wiring diagram on the emergency driver's surface strictly
3. When connecting to AC power, see if it works normally, at this time, green indicating light is on. At the same time, red indicating light would be on too, but it will be off after full charged. Two status of LED lamp:
 - a. The LED lamp is off when its own driver is not connected 220V AC power;
 - b. The LED lamp if on when its own driver is connected 220V AC power
4. Press the test button, the emergency driver enters the status of simulation of power failure. At this time, the indicating light of main power (green) and charging (red) is off, while the emergency indicating light (blue) is on, it is in emergency status, and the LED lamp is working, but the brightness is not so high. After losing the button, it will return to main power status again.
5. Cut off the emergency driver input switch, the LED lamp will be in emergency status.
6. Cutting off the LED lamp's connection to the emergency driver in emergency status, the emergency driver will stop supplying power to the LED lamp, the emergency indicating light would be off.

Finishing installation after ensuring all are normal after testing.

After testing the above steps, if OK, installation is finished.

7. Keeping a record of maintenance and maintaining the emergency driver and LED lamp regularly
8. Checking regularly to ensure its lifespan and usage.

IX . Solution for problems

Problems	analysis	Solution	remark
1.Green light not working	1.Something wrong with driver	Checking driver	
	2.green light is broken Or circuit is disconnected	Checking circuit or changing green light	

2.Red light is off	1.not being charged	Checking the charging circuit or battery	
	2. red light is broken or circuit is disconnected	Checking circuit or changing red light	
	3.Battery is full charged	Disconnecting the main power supply, make the LED lights work in emergency status for 30 minutes, make the LED light return to work in main power status again	
3.Blue light is off	1.The battery is open circuit	Checking battery	
	2.Light source is open circuit or short circuit	Ensuring light source is connected correctly	
	3.PCB is broken	Checking and maintaining the circuit board	

X . Package, shipping and storage

1. Quantity and specification, please find the signs of packing cases
2. Checking if there are any broken emergency drivers, and please do not use any broken ones or out-of-shaped ones.
3. If the emergency driver is not used for over 3 months, it should be connected to AC power for full charging and discharging (until LED lamp is completely off). Then keeping the emergency driver on main power for 24 hours and put it in dry ventilated place.

XI. Connecting method: Please find the WIRING DIAGRAM on the surface of emergency driver itself

Note: this should be operated by professional technical for your safety.

XII. Date of production: Please find the back of product