

Emergency LED Driver

EMUFO Series



IP65



FEATURES

- EN62040-2, EN61000-3-2, EN61000-3-3, EN61347-1, EN61347-2-7, EN61347-2-13 standards
- Constant output power
- Self-testing
- Waterproof: IP65
- Battery: Over Charge Protection
Over Discharge Protection
Short Circuit Protection
- Remote test: Distance for 98ft (This function is optional)
- For wiring to the led driver's AC input
- Fast Connector, wiring is super easy

SPECIFICATIONS

- Input Voltage: 100~240Vac, 50/60Hz
- Input Current: 200mA max.
- Recharge Power: 12W max.
- Output Voltage: 170Vdc
- Emergency Power: 15W/25W/30W/40W
- Recharge Time: 36Hrs
- Discharge Time: 1.5H/3H
- Warranty: 3Years
- VCC: 12Vdc $\overline{\text{---}}$ 0.2A
- Battery: Li-ion
- Ambient Temp: 0~50°C
- Weight: 1.8kg max.

SPECIFICATION CHART

Model NO.	Emergency Power	Discharge Time	Output Voltage
EMUFO-15170-BY	15W	1.5H/3H	
EMUFO-25170-BY	25W		
EMUFO-30170-BY	30W		
EMUFO-40170-BY	40W	1.5H	

The unit of EMUFO-XX170-BY for led lamp less than 320W (When the fixture dim to the minimum, the power needs to be less than that of emergency led driver).

SELF-TESTING

The integrated Self-Diagnostic circuitry will automatically conduct monthly 30-second and annual long-term 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 will automatically performs a long-term discharge test every 365 days until the battery is no power, then automatically returns to the recharged state.

EMUFO SERIES 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 and by disconnecting the battery on/off connector.
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 specifications.
5. **CAUTION-** The emergency driver requires an un-switched AC power source of **100-240VAC**, 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 170VDC.
6. **CAUTION-** Battery pack should be charged for 36 hours every 6 months during storage.
7. **CAUTION-** Press test switch again to turn off emergency before shipping.
8. Battery in this unit may not be fully charged. After electricity is connected to the unit for at least 36 hours, then normal operation of this unit should take effect.
9. For use in 0°C minimum, 50°C maximum ambient temperatures.
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. The emergency driver have battery inside, forbidden for insulation voltage(I/P-O/P) test.



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

This product has been designed and tested to compatible with most of led drivers in the market. However, compatibility cannot be guaranteed with all current and future LED drivers or fixtures. So compatibility testing of the end-use system is suggested. Please contact the factory with any questions.

STEP 1: ASSEMBLING NOTICE

- > The Maximum weight of lighting fixture should be less than 20kg.
- > Before wiring, make sure safety rope is securely locked and make sure all the screws are tight.

STEP 2: INSTALLING

- > Turn off the AC power before installing.
- > Assembling the EM backup with the Safety Rope with the chain link connector.

STEP 3: WIRING

- > Select the appropriate wiring diagram to connect the emergency driver to the AC driver. For other diagrams, consult the manufacturer.
- > The voltage input to the dimmable wires (DIM+, DIM-) of emergency LED driver must less than 20Vdc.
- > Using wire nuts to cover un-used wires and make sure all connections are in accordance with the NEC and any local regulations.

STEP 4: TESTING

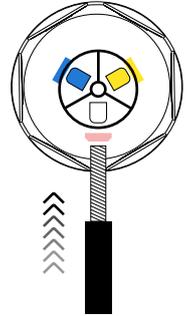
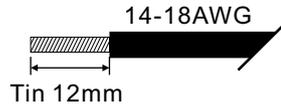
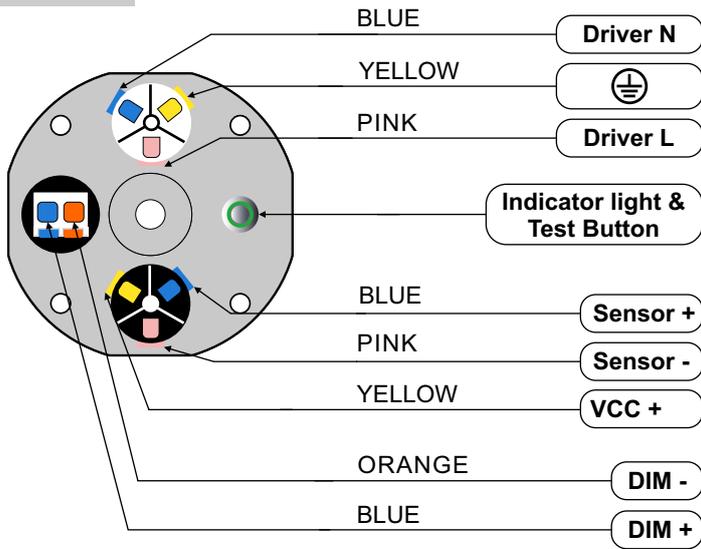
- > After wiring is complete, apply A.C. power. Check if the indicator light lights or not , which will indicate the battery's charging situation.
- > The battery in this unit may not be fully charged. A short-term discharge test may be conducted after the emergency driver has been charging for 1 hour. Charge for 36 hours before conducting a long-term discharge test.

SAVE THESE INSTRUCTIONS

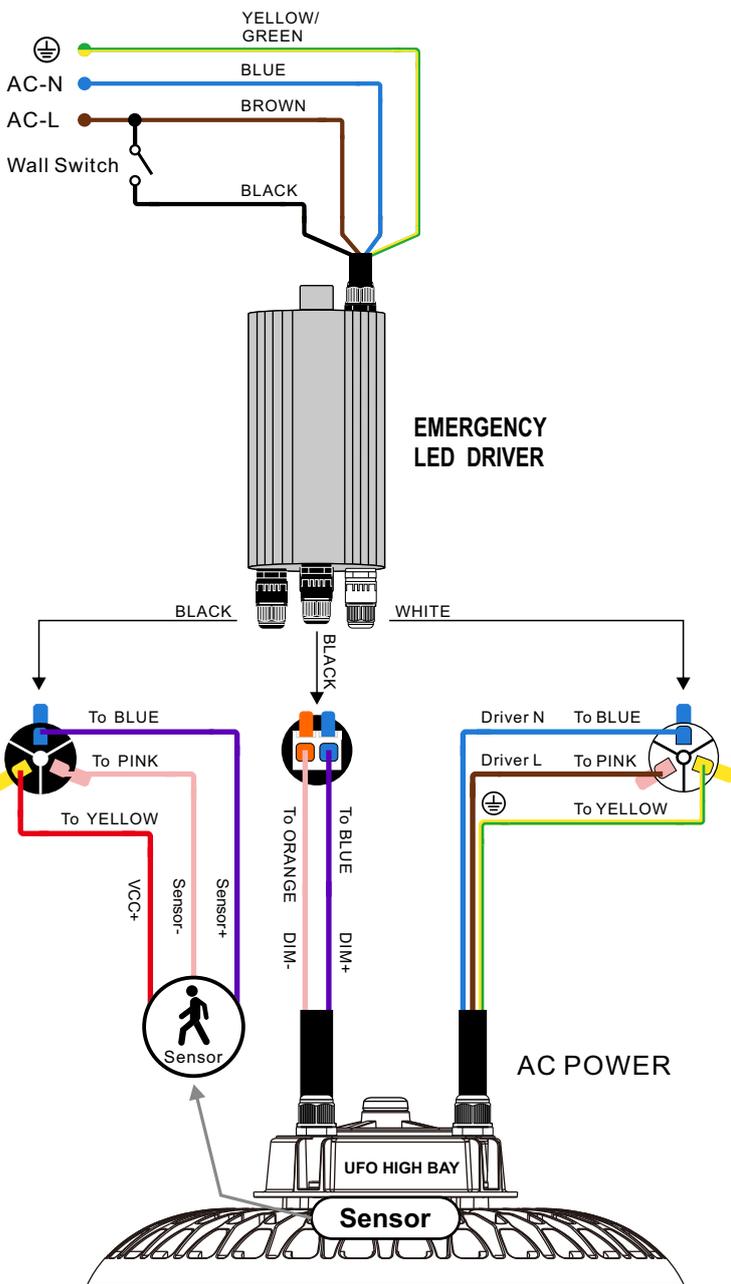


WIRING DIAGRAM

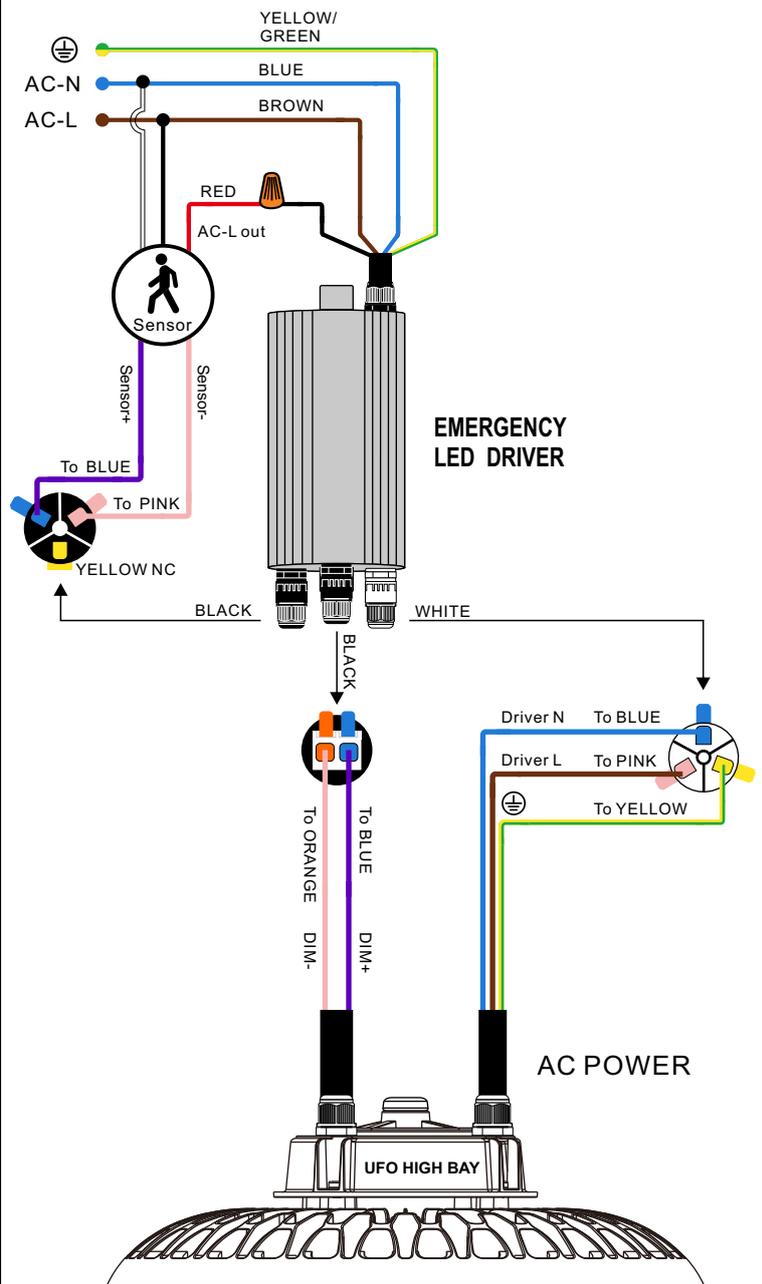
OUTPUT



A with DC sensor



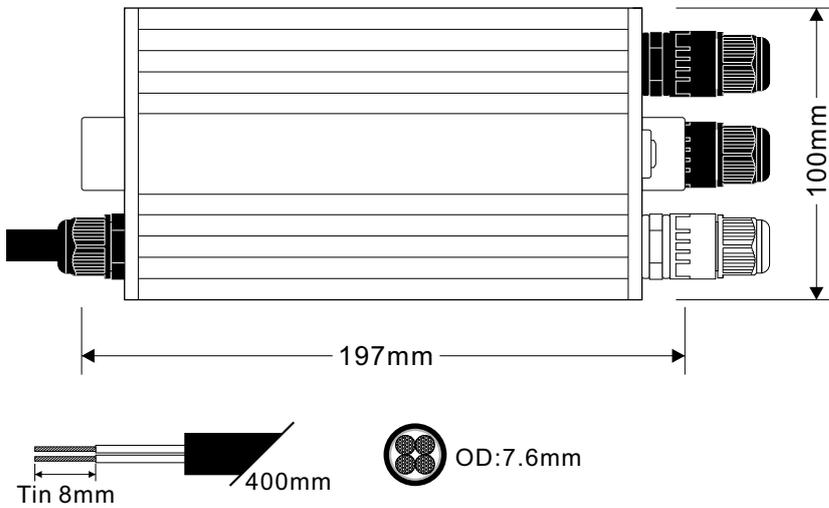
B with AC sensor



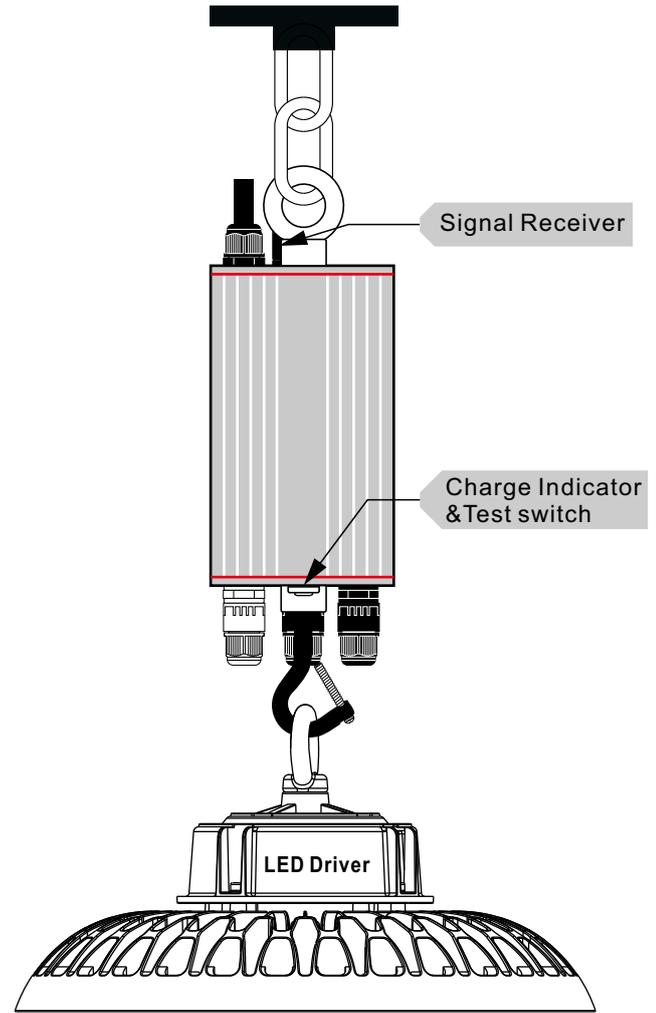
DIMENSIONS

SIZE : L197mm*H100mm

Input wire exposed:400mm,OD:7.6mm



INSTALLATION INSTRUCTIONS



ACCESSORIES



A. 1 pc M10 Hanging Ring Bolt



B. 1 pc M10 Hanging Hook Bolt



C. 1 pc of Remote(Optional)
1 pc of Antenna(Optional)

OPERATION(INDICATOR STATUS)

Mode	Test Switch Operation	Wireless Remote Operation	Indicator Status	Comment & Solutions
AC MODE (1)	NO Press	NO Press	ON(no flashing)	Emergency led driver is charging
AC MODE (2)	Press once	Press Button A once	2s ON and 2s OFF (slow flashing)	Emergency led driver is conducting a 30s short-term emergency test,After 30 seconds,it will automatically restore to normal charging mode
AC MODE (3)	Press twice (2s) in sequence	Press Button B once	2s ON and 2s OFF (slow flashing)	Emergency led driver is conducting a long-term emergency test until battery is fully discharged
EMERGENCY MODE(1)	NO Press	NO Press	2s ON and 2s OFF (slow flashing)	Emergency led driver is conducting a long-term emergency test until battery is no power
EMERGENCY MODE(2)	Pressed once	Press Button A once	OFF	Emergency led driver is turned off
ABNORMAL	When flashes (50ms) ON and (50ms) OFF fast or goes off, the emergency backup pack is abnormal. Contact the manufacturer.			
WARNING Risk of Electric Shock		Note: Please press once test switch to make certain the battery is turned off, before installation, maintenance, storage or shipping.		