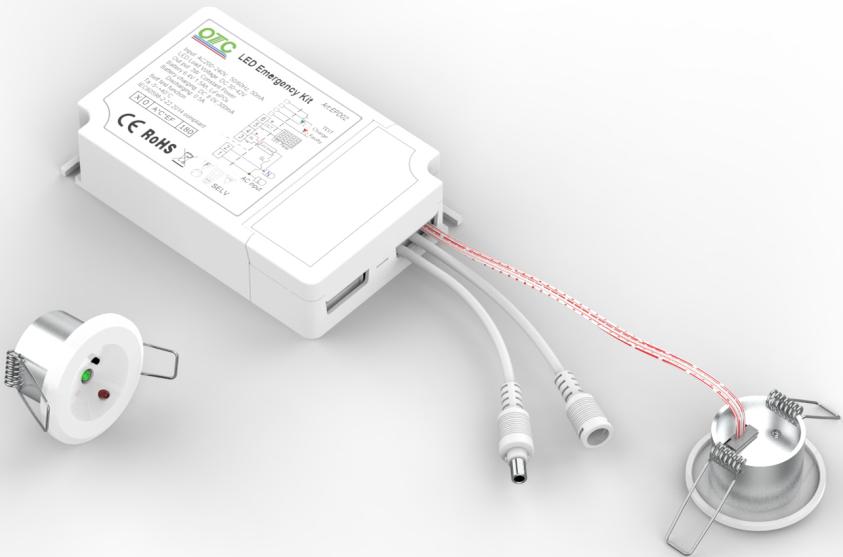


Led Panel Emergency Kit

Data Sheet

For Series: OT-EPD-2 series



OTC
Original technology
Creating the life

Dear partners,

* Thanks for Choosing OTC LED emergency products for your projects.

OTC always pursue high quality, steady quality products, competitive price and one-stop customer service, and offer enjoyable installation experience.

* All the OTC emergency lamp with 5 years quality guarantee (Battery 3 years) . If any doubts/ questions, please contact OTC project support team directly by email support@otcind.net . You will get solutions in 7~24 hours rapidly.

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1 Security related information

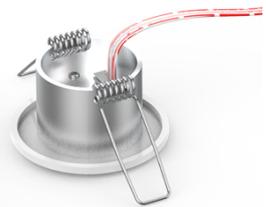
- Installation should be carried out in accordance with the latest edition of the I.E.E. Wiring regulations and taking into consideration the latest building regulations.
- Ensure that all electrical connections are tight with no loose strands, including factory made connections.
- Ensure there is adequate free air circulation of at least 100mm around the luminaire. It is the installer's responsibility to consider fire risk and take appropriate precautions.
- A separate enclosure may be required if this unit is to be used in dusty and wet environments.

Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations . The guarantee is also invalidated if the luminaire has been I.R. tested. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product. Your statutory rights are not affected. We reserve the right to alter specifications without prior notice.

2 Packing list



The EM Module *1



TEST + Indicator *1



LED Panel adapter cable *1



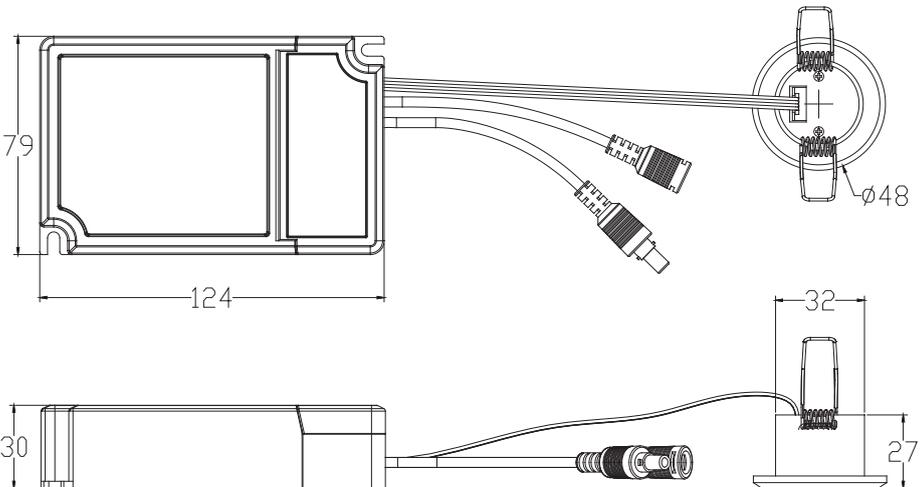
User manual *1



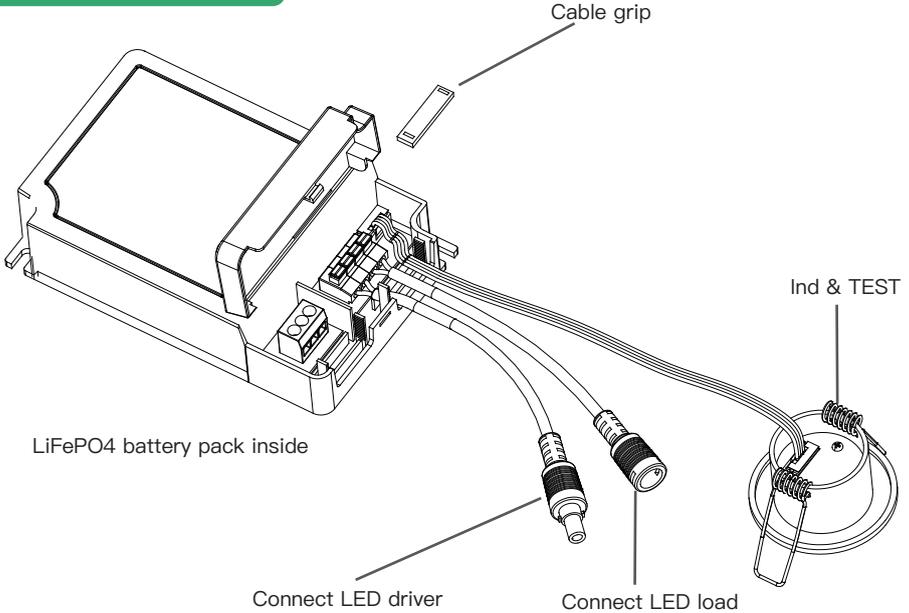
Installation pack *1

3 Basic Parameters

Model	OT-EPD2-		
	SD	ST	RST
Material	PC + AL heat radiation base		
Dimension of driver	124*79*30mm		
Dimension of Test/IND	D48*25mm		
Cut out of Test/IND	35mm		
Degree of protection	IP20		
Input Voltage	AC200-240V 50/60HZ		
Input power	3W		
Power factor	>0.5		
Extension cable	DC5521 with clip, 1 set		
↓ Next are Emergency parameters ↓			
EM mode	Non -maintained		
Standard	60598-2-22:2021		
Emergency change over	<0.5S		
Emergency Pack	6.4V 1.5Ah LifePO4 Pack		
Emergency time	3 hours		
Test	Manual test	Manual + self test	Manual + self +remote test
Charging indicator	Green		
Faulty indicator	No	RED	RED
EM power	3W		
Luminous Flux(EM)	300Lm		



4 Constructions



IEC Declaration of Conformity



LiFePO₄ Batteries are already proved to be safety, even short circuit, overcharge, extrusion, acupuncture and other special conditions.

According to IEC6058–2–22:2021 Annex A, clause A1

The LiFePO₄ batteries are already permitted for emergency light.

5 Self / remote test system(**ST &**RST only)

5.1 Testing (If no failure)

5.1.1. Manual function test.

EPD-2ST: Active the ④ test button.

EPD-2RST: Press “TEST” switch on controller.

- a) The ② Charging indicator OFF.
- b) The Emergency function ON.
- c) The test will cut off the mains

5.1.2 Monthly test.

EPD-2ST: Active the ④ test button for 5 second;

EPD-2RST: Press the “Monthly TEST” switch on controller;
or the lamp installed every 30 days.

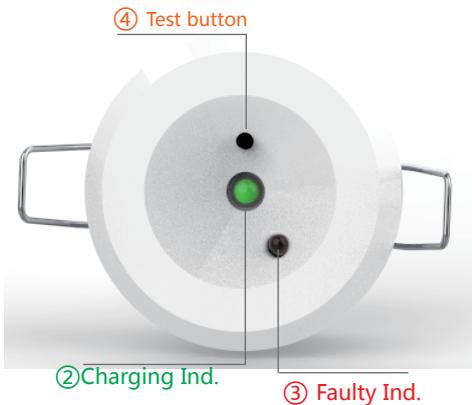
- a) The ② Charging indicator will flash in 1HZ for 128s;
- b) The Emergency function ON;
- c) The test finished and back to standby mode.

5.1.3 Annual test.

EPD-2ST: Active the ④ test button for 7 second;

EPD-2RST: Press the “Annual TEST” switch on controller;
or the lamp installed every 180 days.

- a) The ② Charging indicator will flash in 2Hz for 3hours;
- b) The charging will be cut off & emergency function ON 3hours;
- c) The lamp back to standby mode after test.



Remote test controller
OT-EPD-2RST only

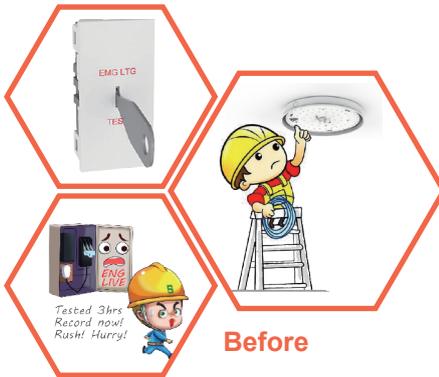
5.2 Testing (If any failure)

- 5.2.1 Battery failure:  Monitored constantly. The ③ faulty indicator will flash in 1 Hz if the battery failure any time.
- 5.2.2 LED load failure:  If press test button, or the luminary self-monthly test. The ③ faulty indicator will flash in 2 Hz if LED load failure.
- 5.2.3 Duration failure:  Only in Annual self-test. The ③ faulty indicator will turn on constantly if the Battery can not last 3 hours

6 Emergency control logic

The emergency function control logic

Operation	Charging indicator (Green)		Faulty Indicator (RED)		Emergency LED In Maintained mode		Emergency LED Non-Maintained mode		
	1 Second	1 Second	1 Second	1 Second					
Normal charging	Constantly on		OFF		Constantly on		OFF		
Normal AC Failure	OFF		OFF		Constantly on		Constantly on		
Manual test	OFF		OFF		Constantly on		Constantly on		
Monthly self-test			OFF		Constantly on		Constantly on		
Annual self-test					OFF		Constantly on		
Battery circuit failure	OFF				Constantly on		OFF		
Light source failure	Constantly on					OFF		OFF	
Duration test failure	Constantly on		Constantly on		Constantly on		OFF		



Before



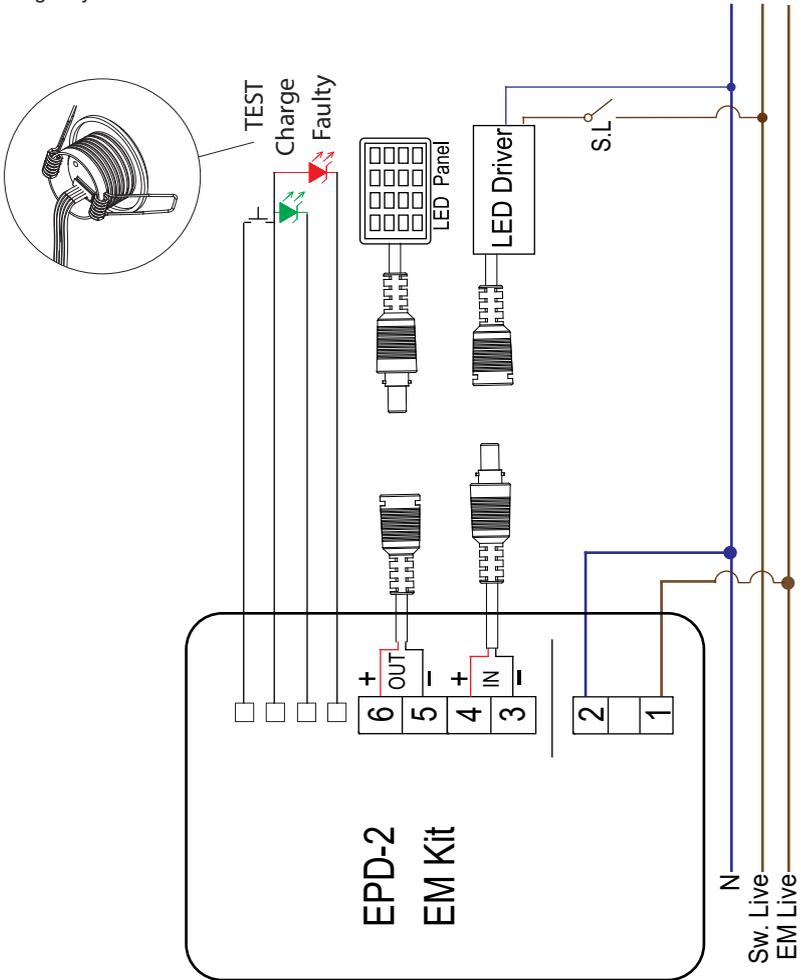
After

No Key switch, No Harry, No ladders
Safe / Easy / Convenient

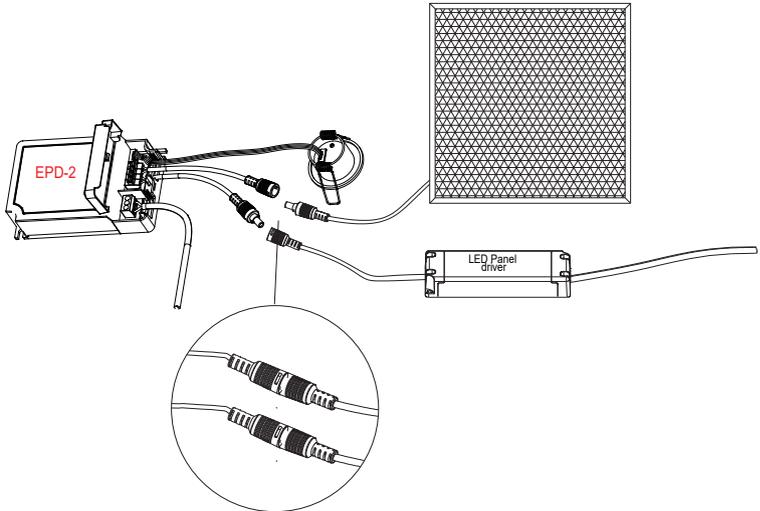
7 Emergency function & Wiring

ADDITIONAL INFORMATION - COMPONENT REPLACEMENT

- The luminaire contains no user replaceable components other than the battery pack contained in emergency versions.
- The battery has a 4 year service life provided it is operated and maintained by regular testing, as detailed in this Usermanual. Failure to maintain or change the battery may result in reduced duration in emergency mode.

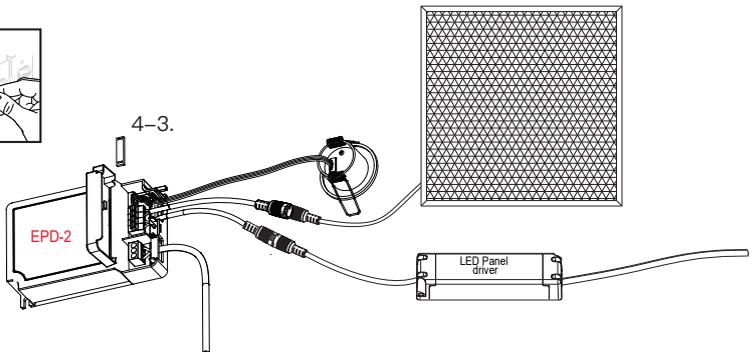


Step3: Wiring

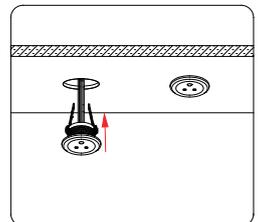


- 3-1. Connect the DC5521 connector
 - 3-2. Wiring the AC cable
- According to the wiring diagram in Page 6

Step4 : .



- 4-1. AC supply on
- 4-2. Test the lunimarir according Page 4
- 4-3. Install the Cable grip
- 4-4. Install the Charging indicator & Test Facility.



9 EM inspection record table



Luminaire emergency inspection record

month	Test	First Year		Second Year		Third Year		Fourth Year		Fifth Year	
		Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
1	Functional										
2	Functional										
3	Functional										
4	Functional										
5	Functional										
6	1 hour										
7	Functional										
8	Functional										
9	Functional										
10	Functional										
11	Functional										
12	3 hours										

Installed By: Luminaire NO.:
 Installed Date:
 Luminaire Location: Contact details:



RoHS

Designed by OTC Project team

Made in China