

Self-test

The emergency kits carry out self-tests automatically to ensure its functionality.
The self-test includes 3 types of tests:

Initial test

- As soon as mains supply is connected, the emergency kit will carry out a 3-seconds functional test automatically.
- In case of a failure, the LED will turn permanent red. Otherwise, the charge mode will start.

Functional test

- Refers to charging, discharging and the functioning of load.
- Carry out for 10 seconds automatically every 30 calendar days.

Duration test

- Refers to the test of batteries capacity.
- Carry out every 180 calendar days.

Rest mode

Rest mode can be initiated during emergency mode by pressing test switch longer than 3 seconds.
The rest mode will be exited automatically after reconnect AC mains.

Reset method(choose either of below):

1. AC power off, press and hold test button more than 5s;
2. AC power off and unplug battery, wait 5s and plug battery.

* During initial installation, the indicator light might be showing red and fitting working properly,
please keep it charging for few hours, then reset, the indicator should change to green.

Please note

If mains supply is off during self-test period, emergency conversion module would terminate self-test immediately
and go into emergency mode.

Self-test is under the regulation of EN 62034.

Explanation of LED indicator

	Color	LED indication	Status	Comment
	Green	Slow flashing green (3 sec on, 1 sec off)	Charging Mode	AC mode
	Green	Permanent green	Fully Charged	AC mode
	Green	Fast flashing green (0.1 sec on, 0.1 sec off)	Function test underway	
	Green	Slow flashing green (1 sec on, 1 sec off)	Duration test underway	
	Red	Permanent red	Load failure	Open circuit/ Short circuit Led failure (emergency mode)
	Red	Slow flashing red (1 sec on, 1 sec off)	Battery failure	Battery failed the duration test or function test / No battery
		Green and red off	DC mode	Battery operation (emergency mode)

Test switch

The test button is a open switch , if you press it, it connects, and then you release it, it cuts off automatically.
When you are doing the daily maintenance , if you press the test button, the emergency driver goes into emergency mode,
if you release the button, the emergency driver will go back to normal mode.

Instruction manual

EM KIT Standard & Self Test 2-in-1

108097



Thank you for purchasing this accessory. Please read the instructions carefully before use to ensure
safe and satisfactory operation of this product.
Please retain these instructions for future reference.

Relevant standard

- IEC 61347-1
- IEC 61347-2-7
- EN 55015
- EN 61547
- EN 61000-3-2
- EN 61000-3-3
- EN 62493
- AS/NZS 60598-2-22
- AS2293.3

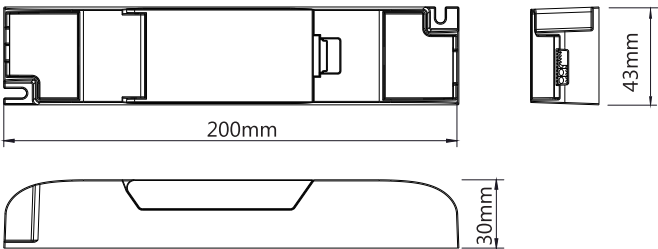
Warranty

- 5 years (2 years + 3 years) extended warranty.
- Except for the following circumstances:
 - 1) Improper installation or operation.
 - 2) Misuse.
 - 3) Abuse.
 - 4) Unauthorized or improper repair alteration.
 - 5) Accident or negligence in use, storage, transportation.
 - 6) Any natural acts.

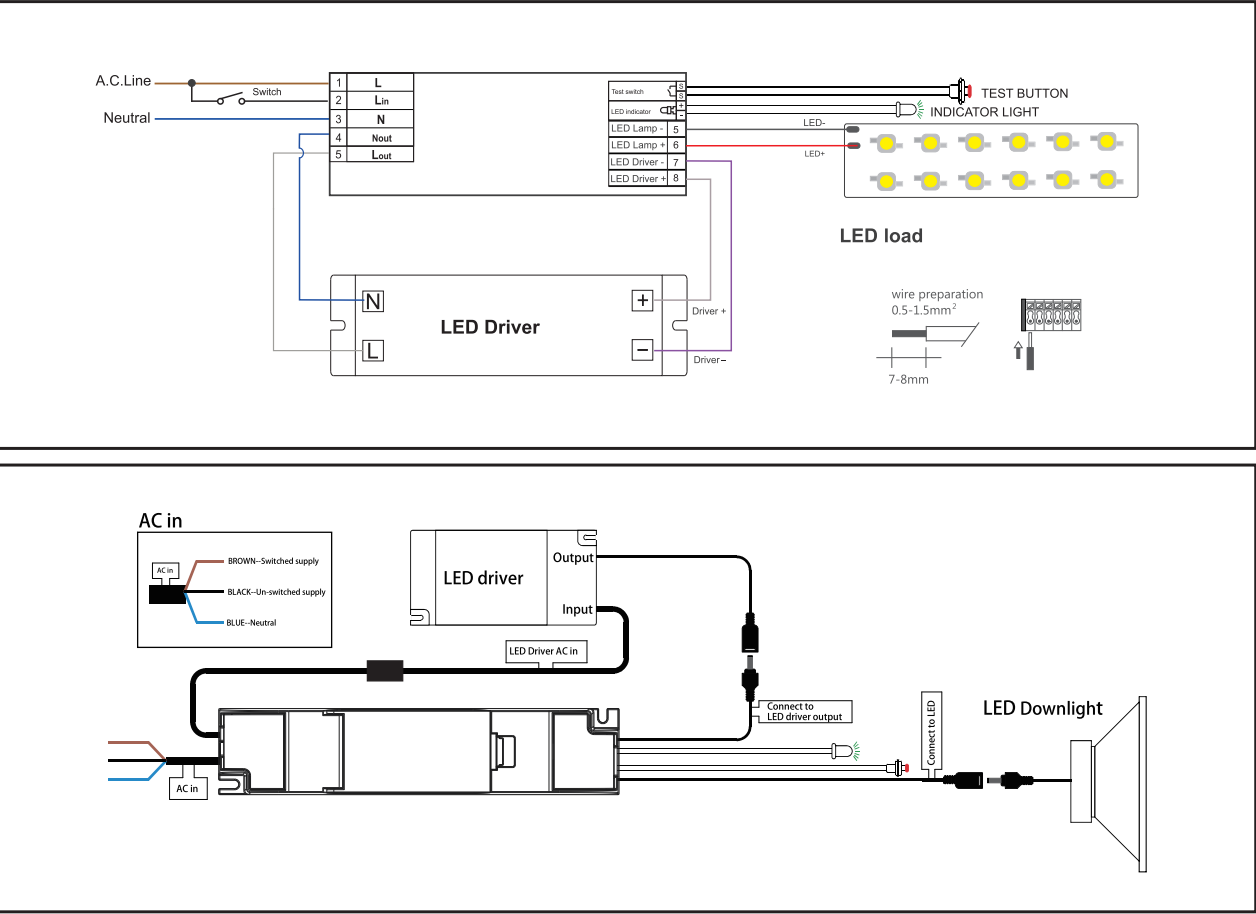
Applications

- Use in dry environment.
- LiFePO4 battery pack.Easy to replace battery pack
- For use on a wide range of LED fittings to convert them from standard to emergency fitting.
- LED fitting would be maintained emergency LED fitting if standard (main powered) driver, emergency lighting kit and battery are all retained in the circuit. LED fitting would be non-maintained emergency LED fitting if only emergency lighting kit. and battery are retained in the circuit.
- Additional Relay that can control standard LED driver.
- Deep discharge protection.
- Ambient range ta 0...45°C
- IP20 protection, relies on end-product enclosure for protection against accidental contact live parts.
- Not intended for use in luminaries for high-risk task area lighting.
- Can close self test mode by dial switch.

Dimensions



Wiring diagram



Technical data

Item	Data
Rated input voltage	220-240VAC,50/60Hz
Input current	<50mA
Iutput power	5W max
Power factor	>0.5
Terminal L-in / L-out (LED driver input constant)	AC 2A Max
Output voltage range	DC20...55V, Uout< 60V, SELV
Max output current	130mA
Output power (constant)	2.5W max;
Battery cells voltage/capacity	LiFePO4 3.2V 3200mAh,10.24Wh
Recharge current	300mA
Recharge time	24hours
Discharge time	180 minutes
Lumen factor	140lm/W
Max. casing temperature tc	70°C

Replaceable Battery Information

Category	Portable battery - 18650*2
Weight	84g
Capacity	3200mAh
Chemistry	Polymer Li-ion
Hazardous substances present (excluding mercury, cadmium or lead)	The battery does not contain hazardous substances above the applicable thresholds set out in Regulations (EU) 2023/1542
Usable extinguishing agent	Water (incl. water mist), foam
Critical raw materials present	Lithium etc. Only list the ones over 0.1% of weight

Instructions for Disposal (End-of-Life Management):

This product contains a lithium battery which must be disposed of separately from household waste at the end of its life. To protect the environment and human health, please ensure proper disposal of this battery and the product.

Information for Recyclers:

We are committed to responsible sourcing of raw materials used in our products, including lithium batteries.

We adhere to robust due diligence policies to prevent and mitigate social and environmental risks throughout our supply chain, in accordance with Regulation (EU) 2023/1542..

HOW TO REPLACE THE BATTERY

Battery Replacement

If after routine operation check, the lamp does not remain lit for the three hours period, a new battery pack may be required. Switch off the electricity at the mains, both switched and permanent supply.

- Allow batteries to fully discharge then reconnect to supply and allow to charge for 24 hours.
- Test again for 3 hours, if light does not remain lit change the battery pack as follows:
- Disconnect from the main supply both permanent and switched supply.
- Open the EM kit cover and unplug battery connector.
- Remove the old battery pack and take the battery pack out of the fitting. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.
- Replace the battery with a LiFePO4 3.2V 3200mAh kit only . Use of a different type of battery will damage the product. - Write current date on the new battery pack.
- Fit new battery pack in position and plug the battery connector into the PCBA.
- Close the Emergency converter.
- Restore power and allow to charge for 24 hours.
- Perform full operation check and update test record.

