

Installation Instructions: Panel Emergency Pack (08747)

Date	Revision
6.6.2024	2

Read these instructions before installation and retain for future reference

This equipment should be installed by a competent electrician



Important Information

We recommend that luminaires are installed by a qualified electrician ensuring the installation complies with current IEE wiring regulations BS7671:2018 & local building control.

- All tests should be carried out in accordance to EN 50172:2004.
- BELL will not accept responsibility for any claims arising from a poor installation.

Important User Advice

- Always switch off mains supply before installing.
- Operating Temperature 0°C to +35°C.
- Do not cover with any insulation.

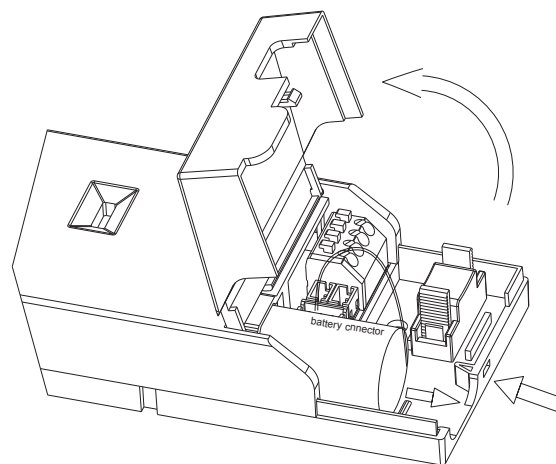
This product may contain substances that can be hazardous to the environment if not disposed of properly. Electrical and electronic equipment should never be disposed of with general household waste but must be separated for its correct treatment and recovery.

Where possible recycle your packaging.



Features

- Output power :2.5W/3.5W/5W
- Insulation Class: II
- Ingress Protection:IP20
- Emergency Duration: 1.5-3hours
- Battery Recharge Time: 16h
- Deep Discharge Protection DDP



Battery replacement steps:

1. Open the top cover first
2. Take out the battery
3. replace the battery
4. Replace the cover

Note:

The battery should be changed when the required duration is not reached

The battery is replaceable

DO NOT cover with insulation

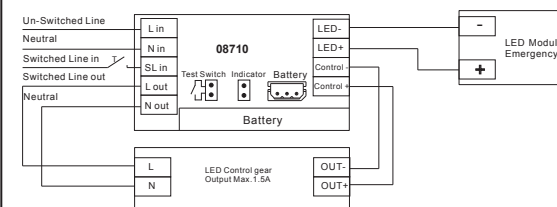
Battery Discharge & Charge Specification

Parameter	Min.	Typ.	Max.	Note
Battery discharge current	300mA	-	400mA	
Output voltage	10Vdc	-	90Vdc	
Output constant current	13mA	-	185mA	
Emergency power	2W	-	2.6W	* Measured at 6.4V input from batteries and "EM 2.5W"

General Specification

Rated supply voltage	220-240VAC
Mains frequency	50/60Hz
Ambient temperature ta	0°C ~ +35°C
Max. Casing temperature tc	60°C

Item Code	Batteries	Emergency Power	Emergency Duration	Charge Current	Charge Time
EEC30-2.5W-3H	6.4V/1500mAhLiFePO4 battery	2.5W	3h	200mA± 10%	16h



Wiring Diagram

The output current of LED driver is under 1.5A

The LED indicator light will not light if:

1. Mains power off, the light goes into emergency mode
2. Battery is disconnected when mains power on
3. Battery connected with mains power on (Attention: Please re-connect the battery with mains power off, and then re-set the AC mains power)

Technical Helpline +44 (0)1924 893380

www.bellighting.co.uk

British Electric Lamps Ltd
Unit A Foxbridge Way, Normanton Industrial Estate
Normanton, West Yorkshire. WF6 1TN

T: +44 (0)1924 893380 F: +44 (0)1924 894320 E: sales@bellighting.co.uk

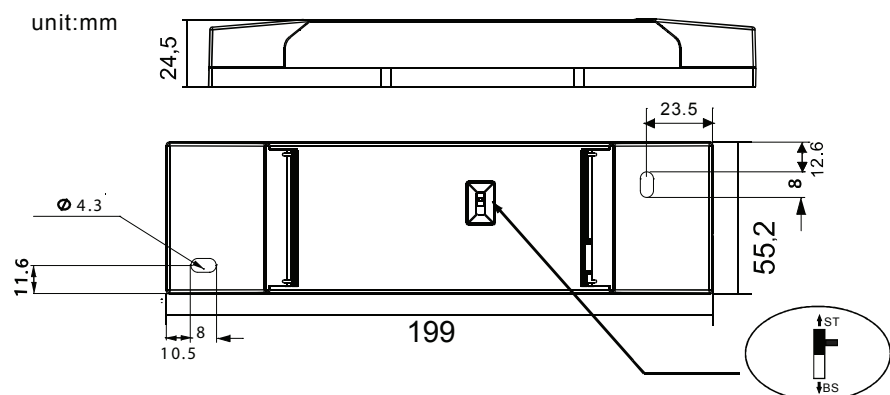
www.bellighting.co.uk

Read these instructions before installation and retain for future reference

This equipment should be installed by a competent electrician



Mechanical Outline



Note:
EEC30EL/H-BS/ST can switch functions through the DIP switch.
Step 1: Before you switching the BS/ST function, please disconnect the L/N and battery cable.
Step 2: Switch the product mode through the switch indicated by the arrow.
Step 3: Turn the switch down to switch the product to standard mode.
Step 4: Turn the switch up to switch the product to self-test mode.
Notice:
The function switching shall only be operated after L/N and battery cable are disconnected.

Testing/Commissioning(self test)

Functionality of the test button

- 1) A short press (>1s) on the button start a function test lasting 5 seconds (The battery's capacity should be more than 5%=charging 30mins)
- 2) Holding down the button(>10s) resets the timer(System-reset)

Function test

The 5 second long, each 7 days' function test serves to check the functionality of the emergency unit, the batteries and LED module.

Notice. If a mains supply failure occurs while a function test is in progress, the test will be postponed and the system will enter emergency operation. Following restoration of the mains supply, a postponed functional test will re-commence automatically as soon as conditions permit.

Duration Test

First test: After 24 hours of AC mains power input, the emergency lighting unit will enter into a 3-hour duration test.

Half year duration test: Conduct 3-hour duration test every 180-182 days to check the battery capacity.

Notice. A duration test will only be started when the battery supply is fully charged. If a mains supply failure occurs while a duration test is in progress, the test will be postponed and the system will enter emergency operation. Following restoration of the mains supply, the postponed duration test will re-commence automatically when the battery supply is fully re-charged.

The indicator will be slow flashing Green for 5 days if the duration test is carried out successfully.

Indicator LED System status is by a bi-color indicator LED.

LED Indication	Status	Description
Permanent Green	Standby ,System OK	Mains Operation, battery is charged
Fast flashing Green (0.25s on 0.25s off)	Function test underway	Function test underway
Slow flashing Green (1s on 1s off)	Duration test underway	Duration test underway
Permanent Red	Lamp failure	Open Circuit or Short circuit or LED failure
Fast flashing Red (0.25s on 0.25s off)	Battery capacity failure	Battery failed duration test
Slow flashing Red (1s on 1s off)	Battery fault	Incorrect battery voltage or Short circuit or Open Circuit
Green and Red off	Battery Operation	Emergency mode:Mains disconnected or Mains failure

Notice.

Once the error has been corrected, reconnect the battery and then re apply the mains power. The indicator LED will switch back to green with the mains power on.

Notice.

After exchanging the battery hold down the test button for 10 seconds and the indicator LED will switch to Green.

Technical Helpline +44 (0)1924 893380

www.bellighting.co.uk

British Electric Lamps Ltd
Unit A Foxbridge Way, Normanton Industrial Estate
Normanton, West Yorkshire. WF6 1TN

T: +44 (0)1924 893380 F: +44 (0)1924 894320 E: sales@bellighting.co.uk

www.bellighting.co.uk