

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

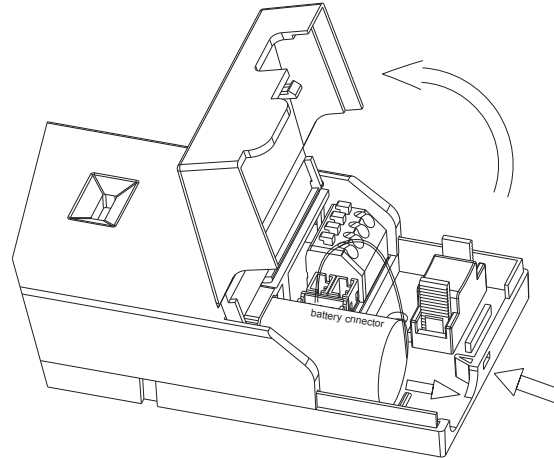
Insulation Class: II

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	* Measured at 6.4V input from batteries and "EM 2.5W"
Output constant current	13mA	-	185mA	
Emergency power	2W	-	2.6W	

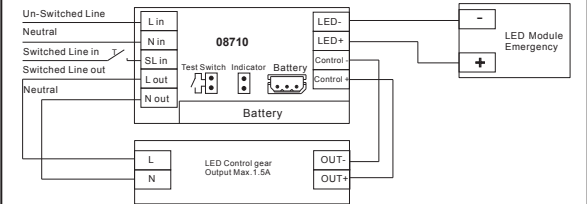
Parameter	Min.	Typ.	Max.	Note
Battery discharge current	500mA	-	610mA	
Output voltage	10Vdc	-	90Vdc	* Measured at 6.4V input from batteries and "EM 3.5W"
Output constant current	30mA	-	250mA	
Emergency power	3.3W	-	3.9W	

Parameter	Min.	Typ.	Max.	Note
Battery discharge current	700mA	-	820mA	
Output voltage	10Vdc	-	90Vdc	* Measured at 6.4V input from batteries and "EM 5W"
Output constant current	34mA	-	380mA	
Emergency power	4.6W	-	5.2W	

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
EEC30-3.5W-2H	6.4V/1500mAhLiFePO4 battery	3.5W	2h	200mA± 10%	16h
EEC30-5W-1.5H	6.4V/1500mAhLiFePO4 battery	5W	1.5h	200mA± 10%	16h



Wiring Diagram

The output current of LED driver is under 1.5A

The LED indicator light will not light if:

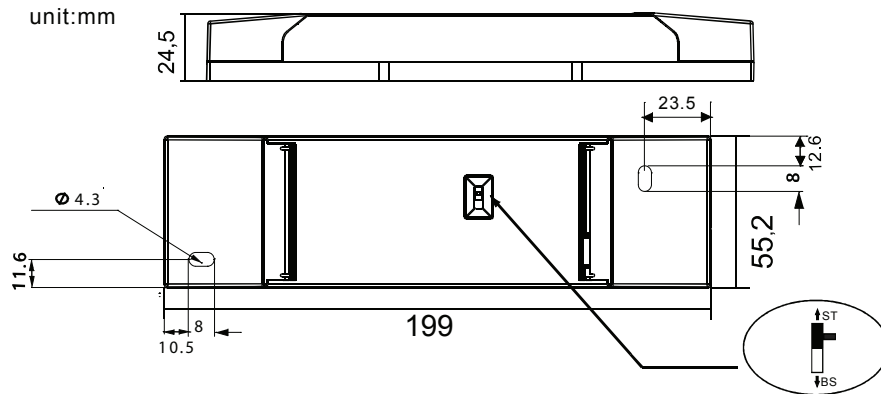
1. Mains power off, the light goes into emergency mode
2. Battery is disconnected when mains power on
3. Battery to be connected with mains power on (Attention: Please re-connect the battery with mains power off, and then re-set the AC mains power)

Date	Revision
10.10.2023	1

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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 dial 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.