



Installation Instructions: Emergency Highbay Pack 09164V2/09577

**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 & local building control.

- All tests should be carried out in accordance with current emergency lighting regulations.
- BELL Lighting will not accept responsibility for any claims arising from poor installation.
- The operating temperature should be between 0°C and 35°C for emergency fittings.
- Ensure that there is adequate free air ventilation around the fitting.
- Always switch off mains supply before installing.
- Upgrading of MCB may be necessary.
- Not suitable for ATEX hazardous zones (explosive atmospheres).
- Not suitable for petrochemical installations.
- Not intended for use by children.
- Only use battery as supplied.
- Allow the battery to fully charge for 24 hours before performing the initial discharge test.
- If the lighting fails within 3 hours of an emergency discharge test, the battery is to be replaced. Contact your local distributor for a suitable replacement.

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.



General Specification

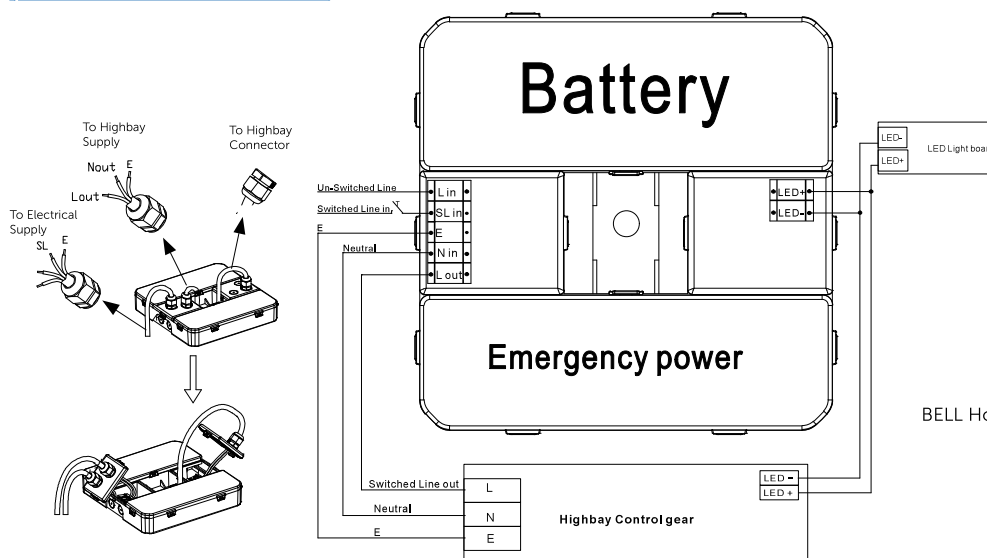
Rated Supply Voltage	220-240VAC
Mains Frequency	50/60Hz
Ambient Temperature TA	0-35°C
Max Casing Temperature TC	75°C

Battery discharge and LED output specifications

Item Code	Output voltage Min-Max	Output current Min-Max	Output power Min-Max	Battery discharge voltage Min-Typ-Max	Battery output power Min-Max	Battery discharge current Min-Max
09164V2 5W	60-250Vdc	9-65mA	2.4-3.5W	2.5-3.2-3.6V	4-5.5W	1400-2000mA
09577 10W	240-430Vdc	13-36mA	7-8.5W	5-6.4-7.3V	8-11W	

Item Code	Batteries	Emergency Power	Charge Current	Emergency Duration	Charge Time
09164V2	32700/3.2V/6000mAhLiFePO4	5W	400mA±10%	3h	24h
09577	32700/6.4V/6000mAhLiFePO4	10W	230-300mA±10%		

Wiring Diagram



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

BELL Ireland
Marina House, Clarence Street, Dun Laoghaire
County Dublin, Ireland, A96 AX76

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

www.belllighting.co.uk

Technical Helpline +44 (0)1924 893380

Technical@belllighting.co.uk

Date	Revision
16.04.26	1

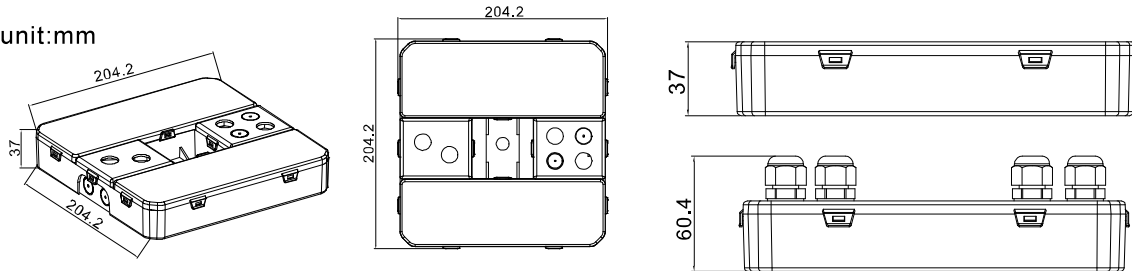


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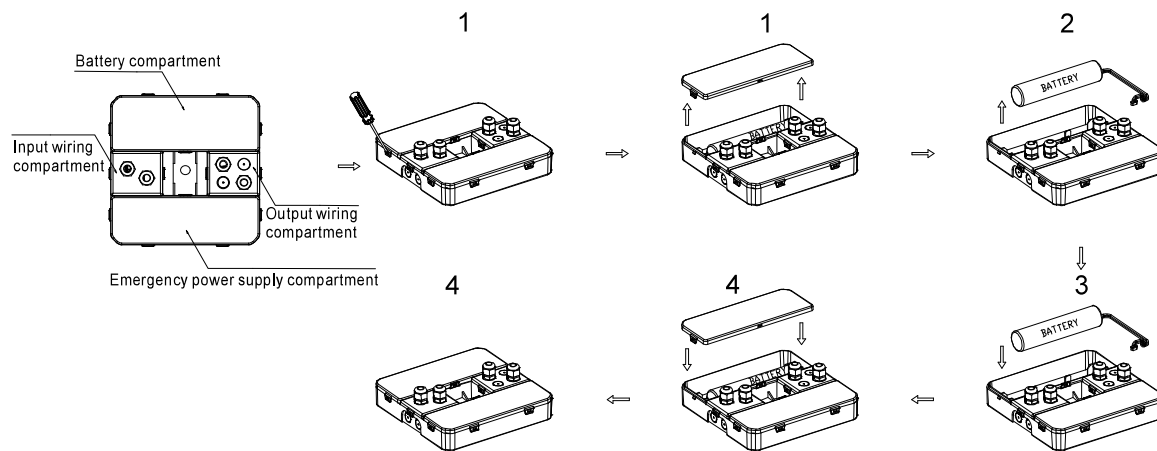
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Mechanical Outline

unit:mm

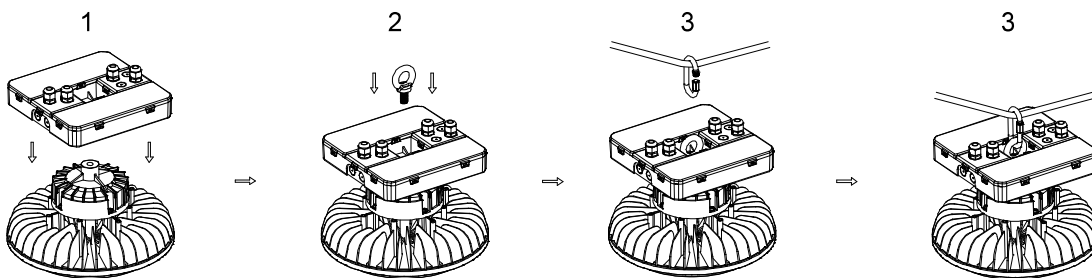


Battery replacement



- Step 1: Use tools to pry open the cover of the battery compartment
Step 2: Disconnect the battery connector of the old battery and take it out
Step 3: Connect the battery connector of new battery and install it
Step 4: Close the open cover to complete the battery replacement

Mounting Options



- Step 1: Place the product on the HIGHBAY power supply, align the hole in the centre of the product with the hole above the HIGHBAY
Step 2: Pass the eye nut through the product from top to bottom, screw it into the thread on the top of the HIGHBAY power supply, and fix the product on the top of the HIGHBAY power supply
Step 3: After the above fixing is completed, hang the eye nut on the installation position reserved on the wall in advance to complete the fixing of the product

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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.

Duration test(EU-3hrs)

- 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.
- 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
Slow flashing Red (1s on 3s off)	Battery temperature error	When power on and battery temperature is above 55(±2)°C or below 0(+2) °C

NOTICE

Fault status:

If an error is detected, the indicator LED will switch to RED. If the error has been corrected please re-connecting the battery after the mains power off, the indicator LED immediately will switch back to GREEN when mains power on.

NOTICE

Battery failed duration test:

After an exchange of the battery and holding down the button (>10S) reset the timer, the indicator LED will switch to GREEN.
If the battery temperature is above 55(±2)°C or below 0(+2)°C , the battery will stop charging.

NOTICE: Other matters:

1. After the first power-on, continuous charging for 24 hours to enter the first inspection, if additional operations are carried out during the continuous charging process, the time of entering the first inspection will be deviated.
2. After entering the emergency state, simply press the test button once (≥1S) to exit the emergency state.
3. When the standard model is powered on and the battery temperature is above 55(±2)°C or below 0(+2)°C, the indicator status is green off.

To change between self-test and normal test, press and hold the test button for 5 seconds. It will flash Green when in self-test mode, and will flash Red when in standard test mode.

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Testing/Commissioning

- Ensure the Load is connected.
- Connect the battery.
- Switch on the Unswitched Supply - Check the Charge LED illuminates green.
- Switch on the Maintained Supply - Check the LED illuminates as normal.
- Switch off the Maintained Supply.
- Switch off the Unswitched Supply - Check the Charge LED extinguishes and the load LED illuminates at a reduced output.
- Enter the commissioning date on the Battery Pack. Switch on the Unswitched Supply

Luminaire Ref/Loction _____			In case of difficulty, contact the Installation Engineers: - _____ Tel: _____							
Full Recharge Time 24 Hours			Duration 3 Hours				Lamp Type - LED			
ROUTINE TEST RECORD										
	Year 1		Year 2		Year 3		Year 4		Year 5	
Monthly Test	Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Functional										
Three Hour										

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