

#### REPLACEMENT BATTERY TYPE:

3.6V 4.5Ah Ni-CD.

#### BATTERY REPLACEMENT:

If after routine operation check, the lamp does not remain lit for the three hour period, a new battery pack may be required.

- 1) Isolate the mains supply to the unit.
- 2) Remove the cover of emergency pack.
- 3) Unplug the battery lead.
- 4) Remove the battery pack.
- 5) Write current date on the new emergency pack.
- 6) Fit new battery pack.
- 7) Replace cover.

#### IMPORTANT NOTES:

The battery charging circuit and DC ballast are separated from the mains by at least basic (single layer) insulation.

When energised by a constant mains supply, the battery will be constantly charged whether or not the lamp is illuminated. On failure of the constant mains supply, the fitting will switch automatically using transistorised switching from battery charging to battery discharge powering the lamp whether or not the lamp was illuminated before the power failure. Both the mains and battery supplies incorporate fuse protection: see fitting for location and rating.

**Ballast is proofed against polarity reversal.**

#### EVENTUALLY, YOU MAY WANT TO REPLACE THIS PRODUCT:

Regulations require the recycling of Waste from Electrical and Electronic Equipment (European "WEEE Directive" effective August 2005—UK WEEE Regulations effective 2nd January 2007). Environment Agency Registered Producer: WEE/GA0248QZ.

WHEN YOUR PRODUCT COMES TO THE END OF ITS LIFE OR YOU CHOOSE TO REPLACE IT, PLEASE RECYCLE IT WHERE FACILITIES EXIST - DO NOT DISPOSE WITH HOUSEHOLD WASTE.

#### INDUSTRIAL BATTERIES:

Within certain products Eterna Lighting Ltd places lead acid, lithium ion, nickel cadmium & nickel metal hydride batteries on the market. Industrial batteries are subject to waste regulation under the Waste Batteries and Accumulators Regulations 2009 and should be disposed of responsibly. Purchasers may be able to dispose of their waste industrial batteries locally via legitimate licensed trade waste contractors. Eterna is obliged to take back, free of charge and within a reasonable time, waste industrial batteries of the same chemistry supplied to a Purchaser, for treatment and recycling and is required to do this in any calendar year new industrial batteries are placed on the market. In certain circumstances, this may include batteries not originally supplied by Eterna. If any Purchaser requires Eterna to take back Industrial batteries, they should write to the Operations Director, Eterna Lighting Ltd, Huxley Close, NN8 6AB, who will then advise on the necessary arrangements for the receipt, proper treatment and recycling of, the waste industrial batteries.

#### CLEANING:

Clean this fitting only with a soft dry cloth.

Do not use any chemical or abrasive cleaners.

#### IF YOU EXPERIENCE PROBLEMS:

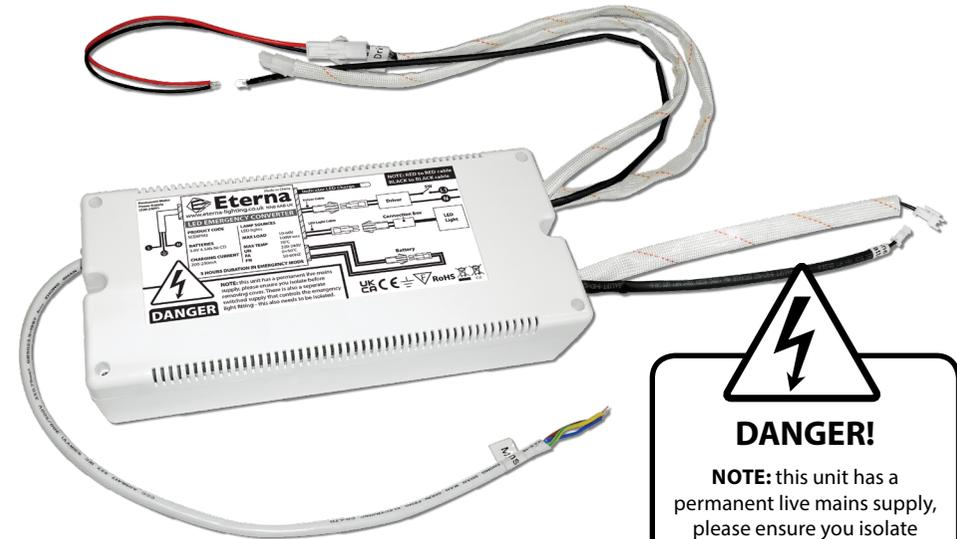
If you believe your product is defective, please return it to the place where you bought it. Our Technical Team will gladly advise on any Eterna Lighting product, but may not be able to give specific instructions regarding individual installations.

 **Eterna**  
Everyday Lighting For Professionals

## INSTALLATION INSTRUCTIONS

### A guide for qualified electricians

## 3 HOURS DURATION IN EMERGENCY MODE



#### Pack contents:

- 1 x Emergency pack
- 1 x Maintenance check record

Model:

# SEEBPM3

## Self Test Emergency Pack For LED Panel Lights

These instructions are provided as a guideline to assist you.

**PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLATION  
AND RETAIN FOR FUTURE REFERENCE**



**DANGER!**

**NOTE:** this unit has a permanent live mains supply, please ensure you isolate before removing cover. There is also a separate switched supply that controls the emergency light fitting - this also needs to be isolated.



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Visit our website: [www.eterna-lighting.co.uk](http://www.eterna-lighting.co.uk)

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## READ THIS FIRST:

Check the pack and make sure you have all of the parts listed on the front of this booklet. If not, contact the outlet where you bought this product.

This fitting must be installed by a competent person in accordance with the current building and IEE wiring regulations.

As the buyer, installer and/or user of this product it is your own responsibility to ensure that this fitting is fit for the purpose for which you have intended it. Eterna Lighting cannot accept any liability for loss, damage or premature failure resulting from inappropriate use.

Switch off the mains before commencing installation and remove the appropriate circuit fuse or lock of MCB.

Disconnect from the electrical supply before flash or high voltage testing.

This unit is suitable for indoor use only.

Do not cover the fitting with any insulating materials.

This product is designed for permanent connection to fixed wiring: this should be a suitable circuit (protected with the appropriate MCB or fuse)

When making connections, ensure that the terminals are tightened securely and that no strands of wire protrude. Check that the terminals are tightened onto the bared conductors and not onto any insulation.

This product must be connected to Earth termination.

Make connections to the electrical supply in accordance with the following code:

Live: Brown or Red (L)  
Neutral: Blue or Black (N)  
Earth: Green and Yellow (E)

You are advised at every stage of your installation to double-check any electrical connections you have made. After you have completed your installation there are electrical tests that should be carried out: these tests are specified in the Wiring Regulations (BS7671) referred to in the Building Regulations.

The batteries supplied with this fitting are a consumable part and therefore may be outside of any warranty offered.

**NOTE: please keep this instruction booklet and the test record in a safe place. A fire officer or other authorised person may want to see your record of inspection and testing.**

## INSTALLATION:

**DANGER!** Please note that there are two live supplies, one switched and one permanent; please ensure you isolate both before you undertake any work on the emergency fitting.

This emergency pack is designed for use with the Eterna LED panel light.

01. Switch off the mains before commencing installation and remove the appropriate circuit fuse or MCB.
02. Site the emergency pack within one metre of the luminaire to be converted.
03. Connect a permanent live supply to the emergency pack & connect the battery cables.

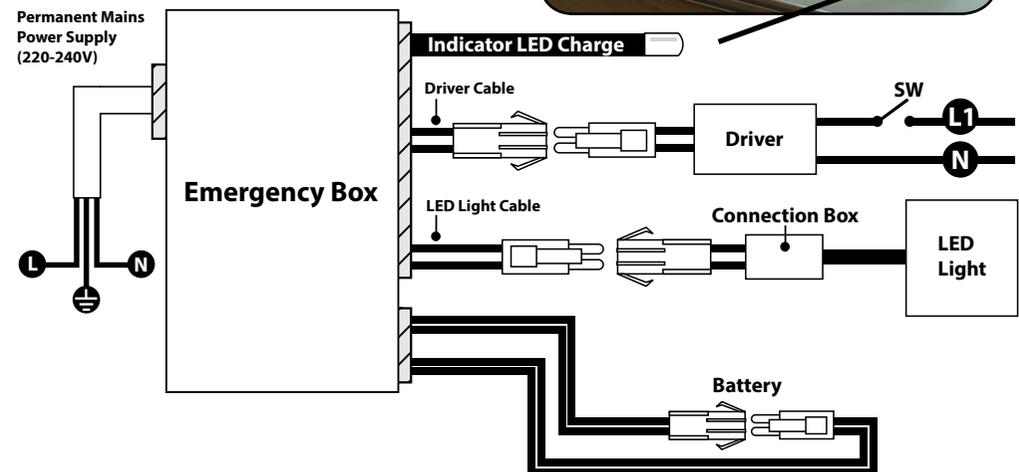
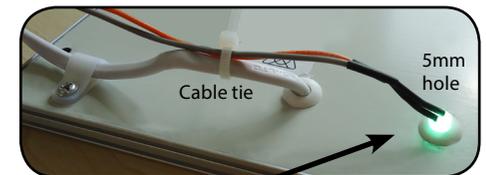
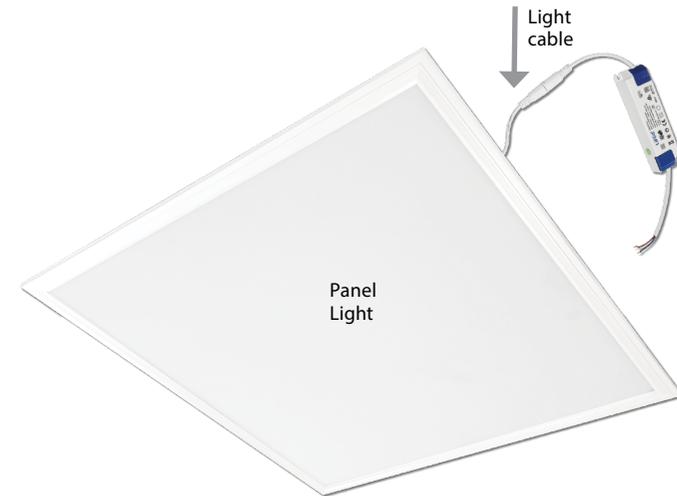
### LED PANEL LIGHT INSTALLATION:

**NOTE:** Before commencing installation or maintenance ensure that the mains supply is isolated and locked off.

**NOTE:** If using with surface mount (SURFMK), remove control gear from box.

1. Remove the cable from the driver supplied.
2. Connect the cable from the panel to the supplied connection box.
3. Connect the emergency pack output trailing lead marked "LED Light" to the connection box making sure the polarity is observed.
4. Connect the emergency pack lead marked "LED Driver" to the output side of the driver which was supplied with the panel / downlight.
5. Connect 240V mains switch supply to the input side of the driver.
6. Connect a permanent 240V mains supply to the emergency pack.
7. Connect the two battery leads from the pack.
8. Insert the green LED indicator into the 5mm hole and secure in place using a cable tie; the green LED should be visible when the light is on.
9. Mark the installation date on the battery pack.
10. Restore power; a green indicator light will be present to show that the batteries are charging.

**NOTE:** For non-maintained operation do not connect a switched supply to the fitting.



## OPERATION CHECKS:

This product is fitted with an automatic, self-test function that will commission and test itself in accordance with the requirements of the British Standards. Monthly and annual tests will be automatically completed as detailed below with tests including battery charge condition, functional test and duration test.

Monthly – ten minute functional test

Annually – full three-hour duration test

- On installation a date will be randomly assigned for the first monthly and first annual test.
- The initial monthly test will be between 16 and 30 days from installation.
- The initial full-duration test will be between 200 and 360 days from installation (annual tests will then be conducted every 360 days).
- The schedule of these tests will be remembered for a period of 7 days if no power is supplied to the luminaire.
- If there is a mains failure in 24 hours before a test is due to be conducted, the test will automatically be postponed until sufficient time is allowed to recharge the battery.
- If there is a mains failure during the self-test operation the unit will go into emergency mode.

## TESTING

This product is designed to conduct self-testing in accordance with EN 62034, the results of monthly and annual tests should be endorsed on the test record form supplied.

Because of the possibility of a failure of the normal lighting supply occurring shortly after a period of testing of the emergency lighting system or during the subsequent recharge period, all full duration tests shall wherever possible be undertaken preceding time of low risk to allow for battery recharge.

### Daily:

Visual inspection of the battery charge LED.

### Each Month:

The product will be energised from its battery for adequate time to ensure that emergency mode is functioning correctly.

### Once Each Year:

The product will be placed into emergency mode and check that the duration provided meets the specified time period.

### There is a control button within the battery pack:

- Press for 1 second to reset the timer function, the monthly test will then be conducted after 30 days and the annual test after 360 days.
- Press for 3 seconds to initiate a 5 minute functional test.

**NOTE:** This can only be completed under mains conditions and accordingly must only be conducted by a qualified electrician.



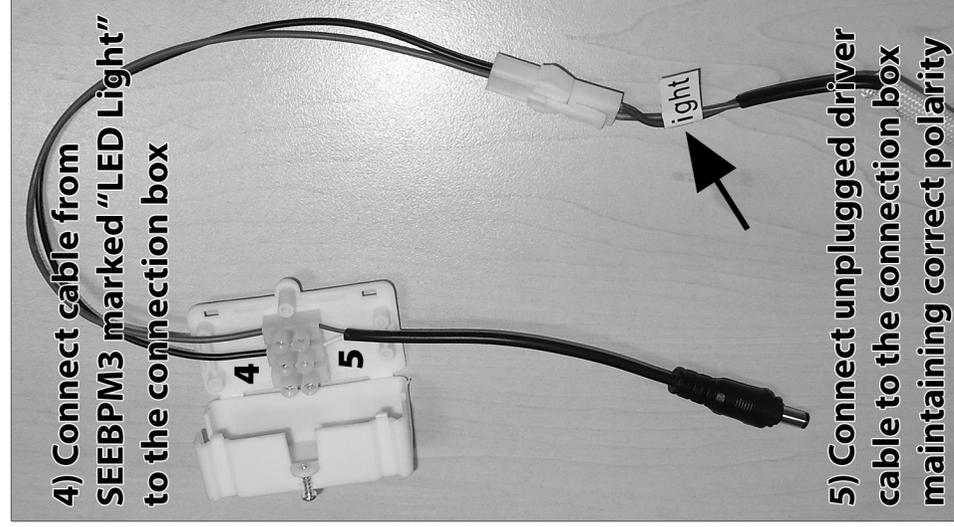
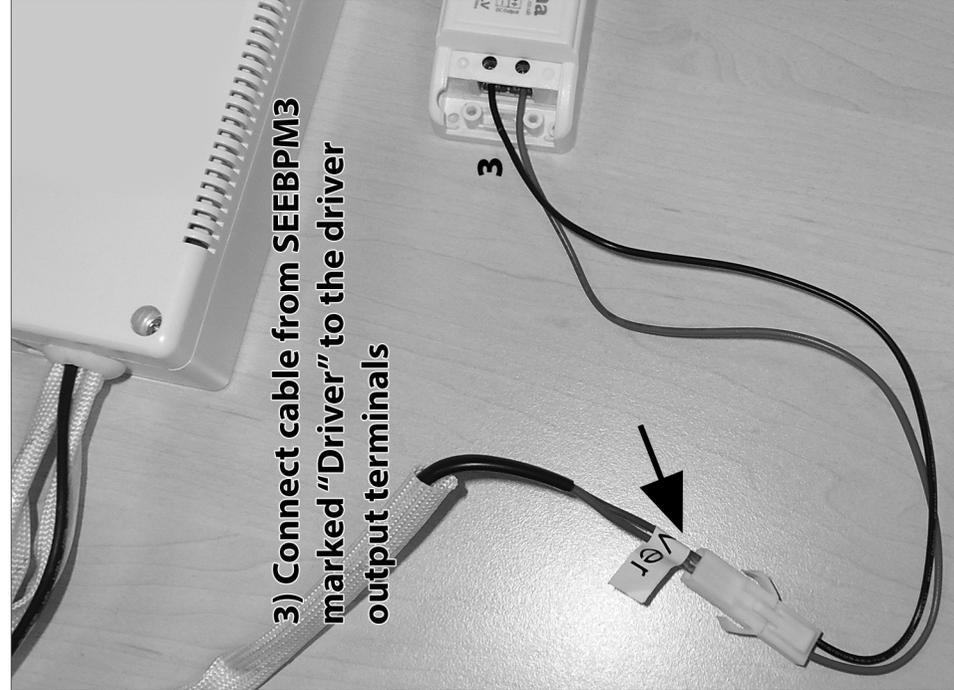
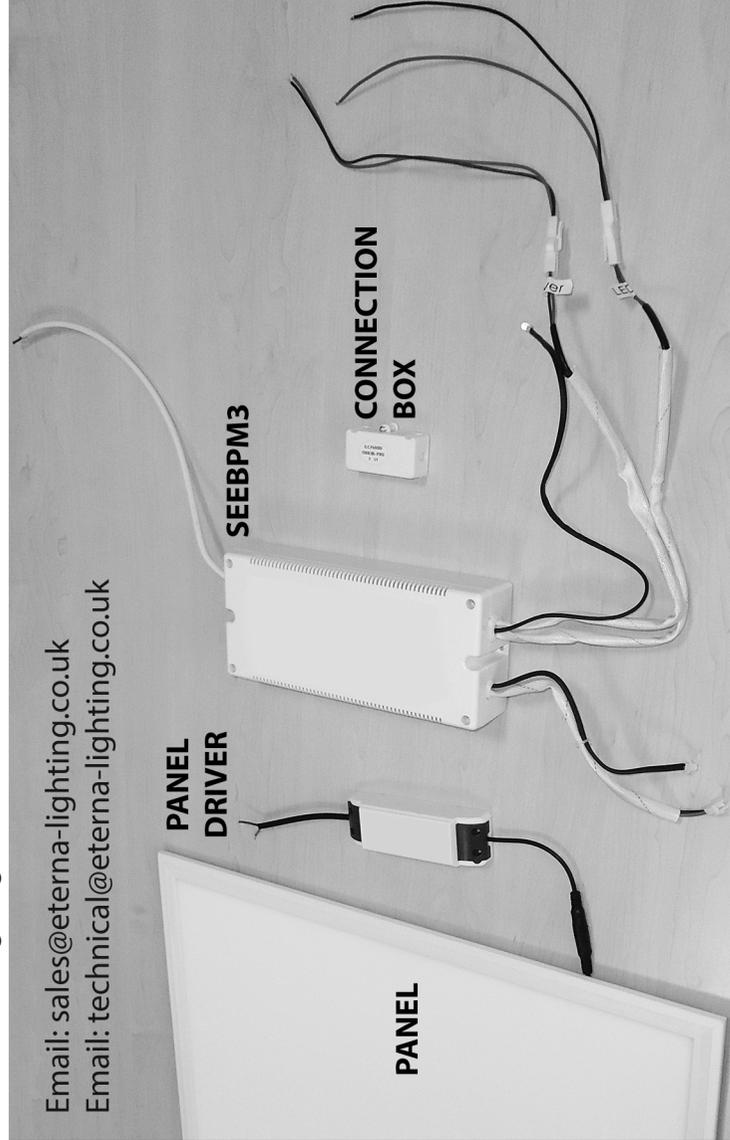
— SW1

## PERFORMANCE AND FAULT INDICATORS:

Normal operation	constant green LED
Duration test underway	red indicator flashing rapidly
Battery circuit failure	red indicator flashing once every 3 seconds
Light source failure	red indicator flashing twice every 3 seconds
Failure of duration test	red indicator flashing three times every 3 seconds
Auto test function fails	red indicator flashing four times every 3 seconds
LED indicator off	in emergency mode (mains failure)



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- 8) Connect 240V permanent mains supply to the battery pack and connect 240V mains switched supply to the driver input
- 9) Insert the green LED indicator into the 5mm hole and secure in place using a cable tie
- 10) Mark the installation date on the battery pack
- 11) Restore power; the green indicator light will be present to show that the batteries are charging