



## **INSTALLATION AND OPERATING INSTRUCTIONS**

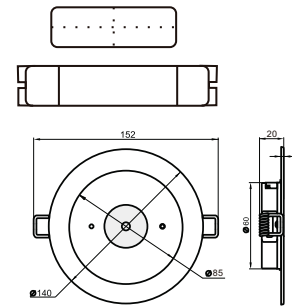
### **RECESSED LED Emergency Light (SP-3001WH/SP3001BK)**

#### **APPLICATION**

During **normal** operating conditions, this LED Emergency light should be connected to a Permanent Active Circuit (not a switched active circuit). When mains power supply is available, AC provides power and charges the built-in rechargeable batteries. The LED Chip is always “unlit.” The LED Chip will only “light up” when there is a cut to the mains power supply.

#### **TECHNICAL DATA**

1. Input voltage: 220-240V, 50Hz
2. AC power consumption: 3w
3. Charge time: 16 Hours
4. Emergency time: 2 Hours
5. Operation: NON-maintained operation
6. Function: Manual Test Switch & LED indicator
7. Working temperature: 0°C to 40°C
8. Battery: NI-MH Battery
9. Mounting: Recessed
10. IP rating: IP20
11. Material: Plastic
12. Classification: C0:D25 C90:D25



Series product appearance unified. The functions of each MODEL is similar. Please refer to the following table.

Battery type: NI-MH:4.8V 1800mAh Max Ambient temperature:60°C Installed date: Manufactured date: Used date:
--

#### **PLUG IN BATTERY BEFORE CONNECTING 240V POWER SUPPLY**

##### **SP-30xx-yy series**

Charging mode: Max.3 W 220-240 V 50/60 Hz  
 Emergency lighting mode: 4.8 V battery, 1.7W  
 Battery supply: 1800 mAh, 4.8 V d.c. Ni-MH.  
 Cl. II, IP20, ta 0 - +40°C, Non-maintained, 2 hours duration

The "xx" in the type designation can be 01 or 02, indicating emergency luminaire has different appearance:  
 xx=01: circular enclosure  
 xx=02: square enclosure

The "yy" can be "WH" or "BK", indicating the color of housing.  
 yy = WH: white; yy = BK: black

#### **TECHNICAL INFORMATION**

Model No.	Classification	Charging mode	Input Voltage	Charge Time	Discharge Time	Operation	Emergency Mode Battery	DC Power	Output lumen
SP-3001-WH	D25	3W	220-240V 50/60Hz	16 Hours	2 Hours	NON-Maintained	NI-MH, 4.8V 1.8Ah	1.7W	150lm
SP-3001-BK	D25	3W	220-240V 50/60Hz	16 Hours	2 Hours	NON-Maintained	NI-MH, 4.8V 1.8Ah	1.7W	150lm

## SAFETY

This is a mains powered product. Before Installation or maintenance, please make sure power supply is isolated. If the external flexible cable of this luminaire is damaged, it should only be replaced by a licensed electrician or equivalent qualified person to avoid any safety hazards.

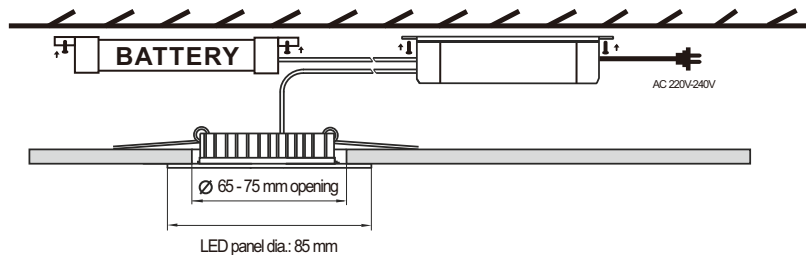
This luminaire is intended only for mounting in locations where the plug and sockets are protected from unauthorised disconnections.

## PRECAUTIONS

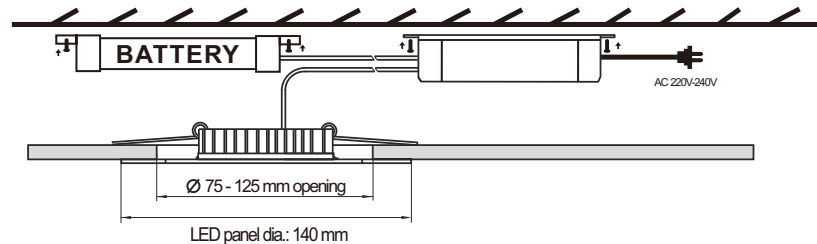
This product must be only installed by a Licensed Electrician. Please make sure the mains supply is isolated before commencing installation. Check the unit labels for correct supply voltage and frequency.

## INSTALLATION INSTRUCTIONS

### 1. A dia-cut solution:



### 2. B dia-cut solution:



Step 1. Remove the product from the box and inspect it for any damage. If you believe the product to be damaged or otherwise unsound, **DO NOT** install the fitting.

Please pack it back into its box and return it to the place of purchase for replacement.

Step 2. Choose the LED panel size that is suitable for your application.

**65-70mm cut out for the 85mm panel or 75-125mm for the 140mm panel.**

Note that this product can be installed into an existing cut out in the ceiling ranging from 65mm to 125mm.

For the smaller **65-75mm** panel, remove outer ring by twisting the outer ring out of its locking position and sliding the outer ring down the loom.

Step 3. Put the inverter and battery into the ceiling, fix it onto the ceiling by self-tapping screws.

Step 4. Connect the LED panel connector.

Step 5. Connect the battery connector.

Step 6. Once the LED Emergency Light is Installed/Plugged Into Mains Power, ensure the loom goes through the cutout into the ceiling. Pull back the two spring clips so they can fit through the ceiling cutout. Release the spring clips, ensure the dish is secure and flush up against the ceiling.

Step 7. Turn on the mains power, check if the LED Indicator on the LED Emergency Light is "ON", if not check if the connectors between the inverter and the LED Emergency and/or battery is securely connected and the mains power is turned on. Press the "TEST" Button, if the LED Chip "light up" then the installation is successful and complete.

Step 8. Finally, THE INSTALLER MUST Charge the fitting for a minimum of 24 Hours without disconnecting Power.

If you have installed and connected the fitting as per the instruction contained within this manual and the light fails to work properly, please use the following table as a guide to fixing the problem.

<b>FAULT</b>	<b>POSSIBLE CAUSES</b>
Red LED is not lit	<ul style="list-style-type: none"> <li>▪ AC Supply is not connected</li> <li>▪ AC Supply turned off</li> <li>▪ Battery plug not connected to battery pack</li> </ul>
Red LED is lit but the lamp does not light when the test switch is pressed.	<ul style="list-style-type: none"> <li>▪ Lamp is damaged</li> <li>▪ Lamp is not inserted properly</li> <li>▪ Battery pack is damaged</li> </ul>
Lamp lights, but only temporarily, when test switch is pressed or when main power supply is turned off.	<ul style="list-style-type: none"> <li>▪ Battery pack not fully charged</li> <li>▪ Battery pack is damaged</li> </ul>

### **Test Switch**

A Test Switch is provided to simulate a supply circuit failure. Press and Hold the test switch, the LED Chip will "Light up" in Emergency Mode, After Releasing the Test Switch, the LED Chip will become "unlit" (back to normal)

### **TESTING PRECAUTIONS**

When this fitting is permanently connected to the mains supply you will need to charge the battery for 24 Hours. Once the battery is fully-charged, you will need to conduct a manual discharge test as per the requirement of AS/NZS 2293. At the time of printing, the standard requires that new fittings operate in emergency mode for at least 2 Hours for their first discharge test.

Further tests are to be carried out at intervals of not more than 6 Months. It is important that you keep records of the initial test and ongoing tests in the building's emergency service log book. If the fitting is not to be permanently connected to the mains supply at the time of installation, you must give it the mandatory 2 Hours test when you connect it permanently to the mains supply.

### **MAINTENANCE**

**WARNING:** Care should be taken when replacing the battery, because this lamp is powered by a battery and an operated inverter when disconnected from the mains supply.

**Regular discharge duration to be checked in accordance with emergency lighting regulations.**

### **REPLACING THE BATTERY**

- 1, Using only the battery recommended on the label found on the surface of the inverter. NO other battery will work in this fitting, other than the type listed.
  - 2, Make sure the main supply is isolated before commencing the replacement.
  - 3, Take out the LED panel from the ceiling.
  - 4, Unplug the AU plug, disconnect the battery terminal.
  - 4, Then connect the new battery with the same specification.
  - 4, Reconnect with the main supply, check the RED indicator and the LED panel statue,
- IF the RED indicator and LED panel are OFF, check again connection of network and the plug of the battery.
- IF the RED indicator is ON and the LED panel is OFF, then press the test button, the red indicator is ON and the LED panel is ON, congratulations, the battery replacement is successful.

### **BATTERY LIFE**

The designed lifespan of the battery installed in this product is 2 Years, the battery should be replaced after this time. To maintain the economical life of this product it is required that the battery be discharged and replaced at least once every 6 Months. The battery life can be reduced if the battery is not discharged in accordance with requirements of AS 2293.

**Regularly discharging/cutting mains power i.e. During Construction Stage, will SIGNIFICANTLY shorten the battery's lifespan and damage the battery. Product failure as a result from this practice is strictly NOT COVERED UNDER WARRANTY AND WILL AUTOMATICALLY VOID PRODUCT WARRANTY.**



### Australian & New Zealand Classifications

Luminaires shall be classified as at least one of the following:

- a) Non-IC
- b) Do-not-cover
- c) CA90
- d) CA 135
- e) IC
- f) IC-4

#### a) Non-IC luminaire

a recessed luminaire that cannot be abutted against or covered by normally flammable materials or used in installations where building insulation or debris is, or maybe, present in normal use.

NOTE: This classification is not suitable for residential installations.

#### b) Do-not-cover luminaire

a recessed luminaire that can be used where normally flammable materials, including insulation, are or may be present, but can not abutted against any material and cannot be covered in normal use,

#### c) CA 90 luminaire

a recessed luminaire that can be abutted against normally flammable materials, including building insulation, but cannot in normal use. Building elements, building insulation or debris have limited access to the heated parts of of the luminaire.

#### d) CA 135 luminaire

a recessed luminaire that can be abutted against normally flammable materials, including building insulation, but cannot in normal use. Building elements, building insulation or debris have some access to the heated parts of the luminaire.

#### e) IC luminaire

a recessed luminaire that can be abutted against normally flammable materials, including building insulation, and can be covered in normal use. Building elements, building insulation or debris have limited access to the heated parts of the luminaire.

#### f) IC-4 luminaire

a recessed luminaire that can be abutted against normally flammable materials, including building insulation, and can be covered in normal use. Building elements, building insulation or debris have restricted access to the heated parts of the luminaire. This classification of recessed luminaire is effectively a sealed unit that has a restricted flow of air between the habitable room the luminaire emits light into and the void/space where the main body of the luminaire is located.

RISK OF FIRE-REQUIRED CLEARANCE FROM STRUCTURAL MEMBERS  
AND BUILDING ELEMENTS  
HCB=20mm MIC=20mm SCI-20mm SCB=20mm

## WARNING

RISK OF OVERHEATING OR FIRE IF THE CLEARANCE DISTANCES ARE  
COMPROMISED. LAMP IS NOT REPLACEABLE

