



## **INSTALLATION AND OPERATING INSTRUCTIONS**

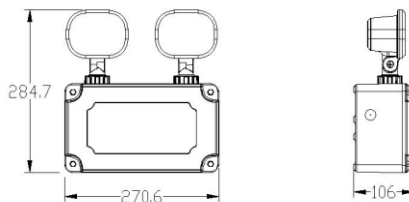
### **LED Emergency Twinspot(SP-FLOOD-FE/DA-D63/D40-WH/BK)**

#### **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. DC Power consumption: | 2.5/5W                                   |
| 3. Charge time:          | 16/24 Hours                              |
| 4. Emergency time:       | 2/3 Hours                                |
| 5. Operation:            | NON-maintained operation                 |
| 6. Function:             | Manual Test Switch & LED Indicator       |
| 7. Working temperature:  | 0°C to 40°C                              |
| 8. Battery:              | LiFePO4 Battery                          |
| 9. IP rating:            | IP65                                     |
| 10. Material:            | PC (flame retardant V-0)+Stainless Steel |
| 11. Mounting:            | Wall mounted                             |
| 11. Classification:      | C0:D40/63 C90:D40/63                     |
| 12.SP-FLOOD-FE/DA        | FE: Standard ; DA: with DALI function    |



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

Battery type:  
LiFePO4:6.4V 1500/3000mAh  
Max Ambient temperature:60°C  
Installed date:  
Manufactured date:  
Used date:



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

##### **SP-FLOOD-FE/DA-xx-yy series**

Charging mode: Max. 4W 220-240 V 50/60 Hz  
Emergency lighting mode: 6.4 V battery, 2.5/5W,  
Battery supply: 1500/3000 mAh, 6.4 V d.c. LiFePO4.  
Cl. II, IP65, ta 0 - +40°C, Non-maintained, 2 hours duration

The "xx" in the type designation can be D40 or D63, indicating emergency luminaire are different

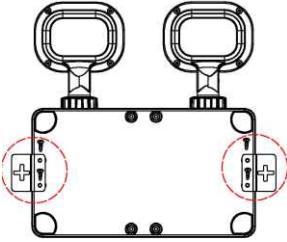
xx=40  
xx=60

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

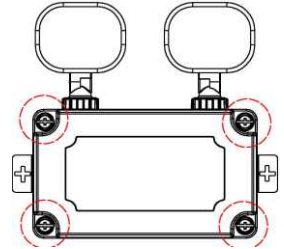
#### **TECHNICAL INFORMATION**

Model No.	Charging mode	Input Voltage	Charge Time	Discharge Time	Operation	Emergency Mode Battery	DC Power	Output lumen
SP-FLOOD-FE/DA-D40-WH	4W	220-240V 50/60Hz	16/24 Hours	2/3 Hours	NON-Maintained	LiFePO4, 6.4V 1.5Ah	2.5W	200lm
SP-FLOOD-FE/DA-D40-BK	4W	220-240V 50/60Hz	16/24 Hours	2/3 Hours	NON-Maintained	LiFePO4, 6.4V 1.5Ah	2.5W	200lm
SP-FLOOD-FE/DA-D63-WH	4W	220-240V 50/60Hz	16/24 Hours	2/3 Hours	NON-Maintained	LiFePO4, 6.4V 3Ah	5W	400lm
SP-FLOOD-FE/DA-D63-BK	4W	220-240V 50/60Hz	16/24 Hours	2/3Hours	NON-Maintained	LiFePO4, 6.4V 3Ah	5W	400lm

## INSTALLATION INSTRUCTIONS



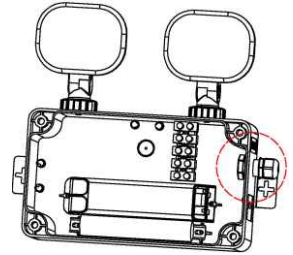
Step 1: Lock the metal sheet to the bottom housing.



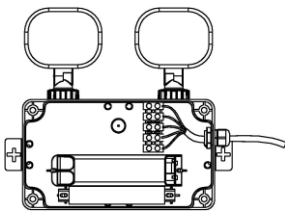
Step 2: Unscrew the 4 screws on the surface housing then open it



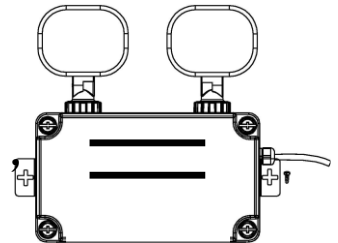
Step 3: Open the waterproof head mounting hole on the bottom housing



Step 4: Lock the waterproof head on the bottom housing



Step 5: Insert the cable through the waterproof head and connect the corresponding cable according to the cable wiring mark on the terminal



Step 6: Fix the light on the wall with screws; then rescrewed the screws on the surface housing to reinstall the cover

## INDICATOR

Battery Charge: Indicator light in RED color  
Battery Fully Charge: RED Indicator off

Main Power: Indicator light in Green color

## TEST SWITCH

A Test Switch is provided to simulate a supply circuit failure. Press and Hold the test switch, the LED Chip will work in emergency mode. Release the Test Switch, the Light will return to normal operation.

### Test precautions:

When this fitting is permanently connected to the mains power, the battery should be charged for 24 Hours. Once the battery is full-charged, you will need to conduct a manual discharge test as the requirements of AS/NZS 2293. At the time of printing, the standard requires that new fitting operate in emergency mode for at least 2 hours for the 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.

## FAULT POSSIBLE CAUSES

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 guide to fixing the problem.

FAULT	POSSIBLE CAUSES
Indicator is not on or flash	<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>
The lamp does not on 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>

## DALI (Digital Addressable Lighting Interface)

DALI is widely acknowledged as being an open protocol as defined under IEC 62386 and is designed only for communication in lighting systems.

SP-FLOOD-DA -D40/D63 with DALI functionality comply with DALI standard IEC 62386.

The DALI wiring consists of additional 2 terminals in the ceiling bracket marked as "DA" and "DA" for DALI control wires apart from the mains terminals, ie: L, N and E.

Note: Mains or mains carrying cables should not be connected to DALI terminals or DALI control wires.

## BATTERY MAINTENANCE

### INSTRUCTIONS:

1. Do allow batteries to reach room temperature average 20 °C before charging. Do NOT charge cold batteries (5°C or below)
2. DO charge NEW batteries to the fullest possible capacity before using them FOR THE FIRST TIME (24 hours in charger). This extended first-charge will result in full break-in of your new battery.
3. DO use the battery soon after its first charge and completely drain it if possible. A battery that is completely recharged and discharged repeatedly will maintain the longest running time. In addition, several complete charge/discharge cycles are recommended to break-in a new battery properly, thus elevating it to its full capacity.
4. DO recharge or discharge the battery that has been stored for 6 months. Idle batteries self-discharge at the rate of approximately 1% per day.
5. DO periodically clean battery and charger contacts with a cotton swab and alcohol to maintain good electrical connections.

### Warning:

1. DON'T repeatedly recharge a battery that has not been used for a full duty cycle. Repeated partial recharging reduces battery capacity and life.
2. DON'T use the unspecified charger or breach charging requirements. Charging cells under unspecified conditions may lead overcharge or abnormal chemical reaction, which cause heat, smoking, rupture or fire.



3. DON'T expose the cell to direct sunlight (or in car exposed to sunlight) and keep it away from children, seek immediate medical attention if the cell is swallowed or inhaled.
4. DON'T expose the cell to extreme hot environment and don't dispose it in fire or water. It will be dangerous to modify or disassemble the cell which may cause fire, heating, leakage or explosion.
5. DON'T short-circuit cell positive(+) and negative(-) terminals and keep the cell away from metal or other conductive materials. Don't reverse the positive (+) and negative (-) terminals.
6. REMOVE the cell from the device or cell charger and stop using it immediately once abnormal situation such as heating, gas generating, discoloration or deformation occurred.
7. DON'T weld the cell directly. Excessive heating may cause deformation of the cell components such as the gasket which may lead swelling, leakage, fire or explosion
8. DON'T use the cell which has been damaged by shipping stress, drop, short-circuit or has an electrolyte smell.

### 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, Disconnect the battery from the lamp and if necessary, unscrew or untie the battery from its mounting position.
- 4, Then connect the new battery with the same specification.
- 5, Reconnect with the main supply, check the indicator and the LED status,

### BATTERY LIFE

The designed lifespan of the battery for this product is 2 Years, the battery should be replaced after 2 years. To maintain the economical life of this product, it is required that the battery should be discharged and recharged at least every 6 months, The battery life can be reduced if there is no discharge and recharge 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**

### 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 be 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 power supply is isolated before commencing installation. Check the unit labels for correct supply voltage and frequency.

