

USER MANUAL For Emergency Exit Sign Light

EX Series 6 (Box Light)



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Part 1

Overview Emergency Exit Sign Light | EX Series 6 (Box Light)



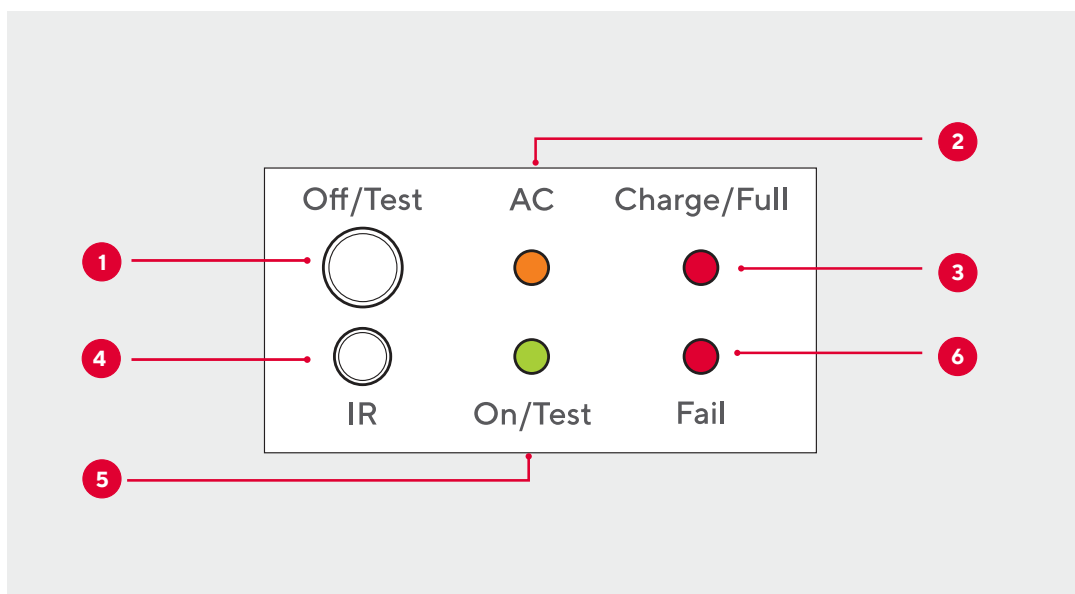
1.1 Features

Emergency Exit Sign Light EX Series 6 (Box Light) is designed for ceiling and wall installation. It has an ECO mode energy saving function that reduces electricity usage by around 50% during standby mode and backup mode, while still maintaining illumination levels according to Thai Industrial Standards Institute and Engineering Institute of Thailand standards. It uses milky white plastic sheets with light diffusion properties across the entire sheet after extended usage, along with lens technology to distribute light and control the direction of the LED chips, ensuring even and consistent brightness across the entire panel, in compliance with TIS 2430-2552 and EIT. 021004-22 standards. The housing is made with 1 mm. thick Electro-Galvanized steel sheets coated with Epoxy powder and stove enameled to help protect from any possible rust.

1.2 Technical specifications

Model	EXS6-10LED/S (C,W)		EXS6-10LED/D (C)	EXS6-10LED/S (F)	EXS6-10LED/D (F)
Mode Of Operation	Maintained				
Operation Temperature	10 to 50°C				
Input Voltage	220-240VAC / 50Hz				
LED Lamp Power	10W				
Color Temperature	6500K - 7000K				
Battery Type / Capacity	Lithium Iron Phosphate (LiFePO4) 3.2V- 2000mAh				
Charging Method	3 Steps Charger System				
Charging Period	10 – 15 Hrs.				
Backup Time	3.0 Hrs.				
Testing Systems	- Auto Check - Auto Test - Manual Test or Remote Test				
Protection Features	- AC, DC Fuse - Battery Low Voltage Cut-Off - Surge Protection				
Housing	Electro-Galvanized steel sheet 1.0mm. thick with epoxy powder coating				
Mounting	Wall (Type W)	Surface Ceiling (Type C)		Flag mounted (Type F)	
Degree of Protection	IP20				
Viewing Distance	24 M (Pictogram Height 10 CM)				
Accessory	Infrared Remote Control (RT-S4)				
Standards / Compliance	- TIS.1955-2551 - ISO9001 - CE - MiT				

1.3 Status Indicators



ลำดับที่	สัญลักษณ์	คำอธิบาย
1	Switch Off/Test	Press to turn off the lamp and the system of the unit (while the power is off or the unit is not plugged in) / Press to test the device's availability (during normal circumstance and the unit is plugged in)
2	LED AC	Indicates that the unit is receiving a power supply
3	LED Charge/Full	Indicates that the unit's battery is charging / Indicates if the unit is performing a self-test using remote control 120-minute
4	IR	Infrared signal receiver
5	LED On/Test	Indicates that the unit is receiving a power / Indicates if the unit is performing a self-test / Indicates if the unit is performing a self-test using remote control 30-minute or 60-minute
6	LED Fail	Indicates there is a problem with the battery

Part 2

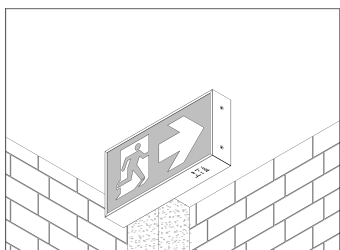
Installation and Operation

2.1 Installation and Operation

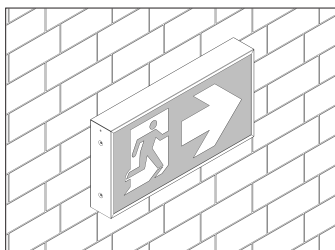
1. Install the emergency exit sign light fixture by securing it in the desired location for displaying the emergency exit symbol.
2. Install properly and securely to prevent accidents that could cause damage to the unit or other people and property.
3. Plug the device's power plug into the power outlet of the building or household with an electrical voltage of 220-240VAC/50Hz. The emergency exit sign lights will illuminate.
Please observe the operation of the device as follows:
 - 3.1 The LED "AC" will turn on indicating that the unit is receiving power.
 - 3.2 LED "On/Test" lit indicates the status of the unit ready to use.
 - 3.3 The LED "Charge/Full" will be on when the battery is charging.
 - 3.4 The LED "Charge/Full" will be off when the battery is fully charged.
4. When the unit is operational, tests can be performed.
 - 4.1 Press the Off/Test button on the emergency exit sign light fixture. The light from the sign will continuously illuminate.
5. When you want to turn off the light without plugging in the emergency exit sign light fixture, press the Off/Test button.

2.2 Types Of Mounting Options

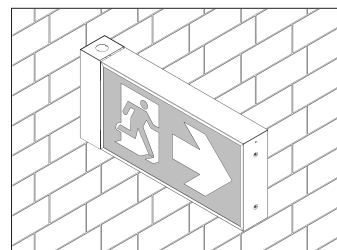
EX SERIES



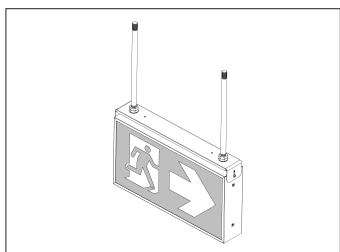
Ceiling (Type C)



Wall (Type W)



Flag (Type F)



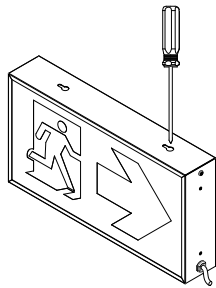
Suspended (Optional)
(installation with kit not included)

2.3 Installation Steps

EXS6-10LED (C)

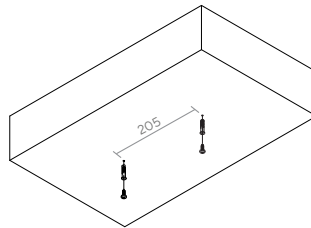
Ceiling (Type C)

Step 1



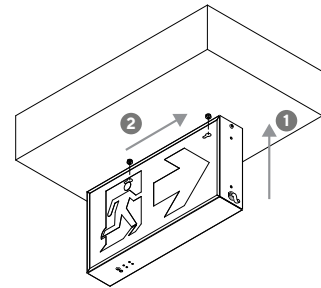
Use a screwdriver to press the hanging hole.

Step 2



Embed the anchor bolt and fasten the screw into the ceiling.

Step 3



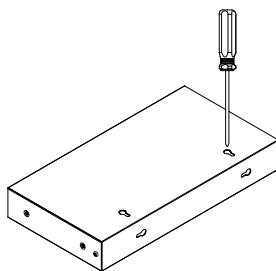
Attach the exit sign to the screw.

*Units are in millimeters.

EXS6-10LED (W)

Wall (Type W)

Step 1



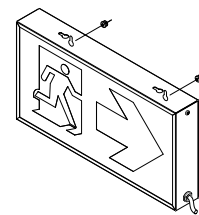
Use a screwdriver to press the hanging hole.

Step 2



Embed the anchor bolt and fasten the screw into the wall.

Step 3



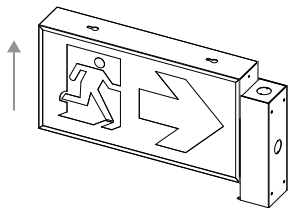
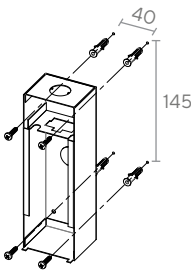
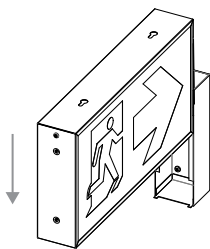
Attach the exit sign to the screw.

*Units are in millimeters.

2.3 Installation Steps

EXS6-10LED (F)

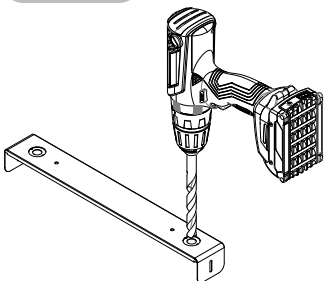
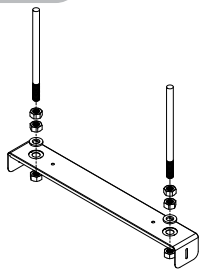
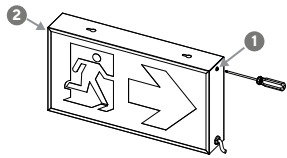
Flag (Type F)

Step 1  Remove the side panel.	Step 2  Secure the box to the wall.	Step 3  Insert the exit sign into the box.
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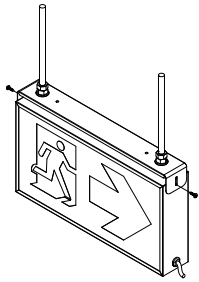
*Units are in millimeters.

Suspended (Optional)

(installation with kit not included)

Step 1  Drill the mounting accessories according to the size of the Hanger Rod.	Step 2  Assemble the Hanger Rod with the mounting accessories.	Step 3  Remove the screws from the device at positions 1 and 2.
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Step 4



Assemble the device with the mounting accessories using the securing screws.

*Units are in millimeters.

2.4 Indicators

Indication Lights	Display	Meaning
AC 	- A continuous orange light - The orange light turns off	- The unit is receiving a normal AC power supply. - The unit is not receiving an AC power supply.
Charge/Full 	- A continuous red light - The red light turns off	- Case 1: The unit is charging the battery. - Case 2: The unit is performing operational test via remote (Remote Test) for 120 minutes. - The battery is fully charged.
On/ Test 	- A continuous green light - Slow blinking green light every 2 seconds - Fast blinking green light every 1 seconds	- When pressing "OFF" to turn off the automatic battery test system (Auto Test) from the remote. - When pressing "ON" to turn on the automatic battery test system (Auto Test) from the remote. - Case 1: The unit is performing battery test (Auto Test). - Case 2: The unit is performing operational test (Manual Test). - Case 3: The unit is performing operational test via remote (Remote Test) for 30 min and 60 min.
Fail 	- A red light blinks three times every 15 seconds - A red light blinks four times every 15 seconds - A red light blinks five times every 15 seconds	- "Battery Fail" When the emergency light unit supply backs up the lighting for less than 120 minutes, or less than the time tested with a remote control. - "Charging fail" When the battery charging system does not charge, the charger does not cut off, the charging circuit cuts off, but the battery charge decreases too quickly. - "Lighting Fail" When the system encounters an abnormality in the lighting system, such as loose lighting cables, broken bulbs, etc.

2.5 Remote Testing



► **While Power is On**

- Press once: to enable ECO Mode function.

► **During Power Outage**

- Press once: to enable or disable ECO Mode function.



- Button for testing the device's function for 30 minutes.



► **Testing :**

- Press once: Perform operational test for 60 minutes
- Press twice: Perform operational test for 120 minutes



- Button for turning on auto battery test system.



- Button for turning off auto battery test system.



► **While Power is On**

- Use to turn lamps on and off (In case the light is turned off, the ECO Mode function will be canceled)
- Use to stop the device's automated testing (Auto Test)
- Use to cancel the device testing for 30 minutes or 60 minutes
- Use to cancel alerts when abnormality alerts are issued by the device

► **During Power Outage**

- Can use to turn lamps off

Part 3

Maintenance



3.1 Device Maintenance

- 1.) The device comes with an automatic self-test system (Auto Test) every 1 month, testing the device for 60 seconds, and every 1 year, testing for 120 minutes. This prepares the device and helps extend the battery life.

3.2 Initial Trouble Shooting

Problem	Cause	What to do
- Power not getting to the unit after plugging in. The LED AC light does not turn on.	- The power socket might not have any power. - The junction is loose. - The AC fuse is blown.	- Check the 220-240VAC power supply. - Check the junction. - Contact customer service.
- The unit and lamp does not illuminate when the power goes out	- The lamp is faulty - The circuit's wiring is loose. - The DC fuse is blown	- Contact customer service. - Contact customer service. - Contact customer service.
- The unit's lamp only turns on for a short duration after the power has gone out.	- The battery is not fully charged. - The battery is past its operational lifetime or has deteriorated	- Take the unit to charge until the "LED Charge/Full" indicator turns off. - Contact customer service to replace the battery

3.3 Important Note on Using the Unit

1. The unit should be installed indoors, out of direct sunlight and humidity. It should not be installed in environment with temperatures higher than 50 degrees Celsius.
2. The unit should be stored in temperatures under 25 Degree Celsius and the battery should be charged every 3 months to maintain its operational life.
3. Please always read the manual carefully prior to operating the unit for the safest and most effective use of the product.

Part 4

Terms for Warranty and Service

4.1 Terms for Warranty and Service

1. The Warranty will only be covered if the customer fills in the “warranty registration form” and mail the return part back to the company within 7 days from the day of purchase. If this is not carried out the warranty will be considered void.
2. The warranty only covers the unit’s internal parts. The conditions and durations for the warranty of each part is as specified and the duration of the warranty is calculated from the date of purchase.
3. Please show your warranty card every time you contact our service center or the dealer you purchased the product from.
4. Products that fall into the following category are considered not covered by the warranty.

The product was used in a way not specified in the manual.

The product was used with accessories not meeting the required specifications specified in the manual.

The product seems to have been damaged from being dropped or from strong impact, for example, the parts are loose, dented, scrapped or misshapen.

The product has been repaired or modified by personnel not authorized by our company.

The Warranty Void sticker is torn or removed.

The product is damaged from careless use or incorrect maintenance, for example, the battery is swollen from overcharging, quick charging was used on the battery, the battery terminals have been short-circuited, the unit was used until the battery was completely discharged and not recharged immediately, the product was stored for long periods until the Battery Checker warning activates and still it is not plugged-in to charge or taking the battery to normal temperature conditions and not recharging it every 1 month.

The product was stored in an unsuitable environment, for example, a location with moisture or water vapor.

The product was supplied with a faulty AC power supply such as electrical overvoltage, electrical current surges, or lightning strikes entering the AC power line.

Damages from natural causes such as fire, being summered in fluids, humidity, chemicals or force majeure.

Damages from insects or animals.

Note : Please read the manual carefully before installation and operation to understand how to properly operate the unit.

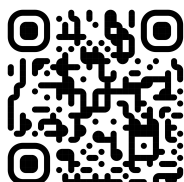
Contact us

ISON IMPORT-EXPORT CO., LTD.

Head Office 2915-2917 Ladprao Road,
Klongjan, Bangkapi, Bangkok 10240

phone 02 378 1034-5

fax 02 370 1672



www.sunnyemergencylight.com