



Product Overview

The smart emergency light is equipped with a voice notification system (**ActiveVoice™**) that announces its operating status, allowing users to immediately recognize critical issues without relying solely on indicator lights. This enhances convenience, safety and risk reduction during real emergency situations. By integrating high-efficiency lighting technology with an intelligent monitoring system, this emergency light can alert users when the battery is running low, when the charging system is malfunctioning, or when the device requires maintenance, ensuring it is always ready for use.

As a result, this smart emergency light is an ideal solution that meets the needs for safety, convenience, and confidence in any location requiring the highest safety standards.

Features

Bulb

- Highly efficient and super bright 9 Watts LEDs provides maximum brightness while saving on power consumption. It also offers long operational life of more than 50,000 hours

Battery

- Use Lithium Iron Phosphate (**LiFePO4**) 3.2V-6000mAh x2, backup power for 6 hours. It has the advantages of light weight, long service life and high power. It also causes less pollution

Functions

- Voice-based operational status notification system (**ActiveVoice™**)
- Auto Check for key components abnormalities such as the battery, bulbs, fuses, lighting circuits, and battery charging system (patent number 21778)
- Auto Test schedule: 1 month every 60 seconds, 1 year every 120 minutes (according to standard TIS.021004-22), activate and deactivate functions with a remote control
- The operation can be tested manually (**Manual Test**)
- A 5-second, 30-minute, 60-minute or 120-minute self-test can be performed on the unit using the remote

Circuit Systems

- Controlled by an 8-bit microcontroller circuit
- A Timer Delay circuit to keep the unit operating for a few more seconds once normal power has returned

Protection Features

- AC and DC fuse to prevent current overload
- Surge Protection
- IP20 dust and water resistant

Features to Extend Battery Life

- An innovative 3 Steps Charger System
- A Low Voltage Cut-Off to prevent the battery from draining completely
- Continuous monitoring and checking system for the battery charging status
- Battery voltage change rate monitoring system with respect to time (dv/dt)

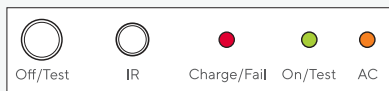
Warning Systems

- Alert for device not ready for use
- Alert for AC input not connected to the device and notification for rectifier circuit malfunction
- Alerts every time the system performs an automatic battery test (**Auto Test**) and detects that the emergency light provides less than 120 minutes of backup lighting (**Battery Fail**)
The LED flashes three times every 15 seconds and is accompanied by a voice alert
- Alerts when a battery charging problem occurs (**Charging Fail**)
The LED flashes four times every 15 seconds and is accompanied by a voice alert
- Alerts when the system detects a lighting system malfunction (**Lighting Fail**)
The LED flashes five times every 15 seconds and is accompanied by a voice alert
- Provides a voice alert before the battery is depleted

Technical Specifications

Mode of Operation	Non-Maintained
Operating Temperature	10 to 50°C
Input Voltage	220-240 VAC / 50Hz
LED Lamp Power	9W / Bulb
Color Temperature	Warm White (3000K ± 250K) Daylight (6000K ± 250K)
Luminous Intensity	833.5 lm, Warm White 726 lm, Daylight
Rated Beam Angle	45° ± 5°
Battery Type / Capacity	Lithium Iron Phosphate (LiFePO4) 3.2V-6000mAh x2
Protection Features	- AC, DC Fuse - Battery Low Voltage Cut-Off - Surge Protection
Testing Systems	- Auto Check - Auto Test - Manual Test or Remote Test
Charging Method	3 Steps Charger System
Charging Period	10-15 Hrs
Backup Time	6.0 Hrs
Housing	Electro-galvanized steel sheet 1mm. thick with epoxy powder coating
Dimensions (L x W x H)	165 x 64 x 180 mm
Weight	1.35 Kg
Degree of Protection	IP20
Mounting	Wall Surface
Accessory	Infrared Remote (RT-S5)
Standards / Compliance	- TIS.902 Part2(22)-2560 - TIS.1955-2551 - ISO9001 - CE

Indicators



- | | |
|------------------------|---|
| 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) |
| IR | ▶ Infrared signal receiver |
| LED Charge/Fail | ▶ Indicates that the unit's battery is charging or is a problem with the battery / Indicates if the unit is performing a self-test using remote control 120-minute |
| LED On/Test | ▶ Indicates that the unit is receiving a power / Indicates that the unit is set to perform automatic self-tests / Indicates if the unit is performing a self-test using remote control 5-second, 30-minute or 60-minute |
| LED AC | ▶ Indicates that the unit is receiving a power supply |

Dimensions (mm)

