



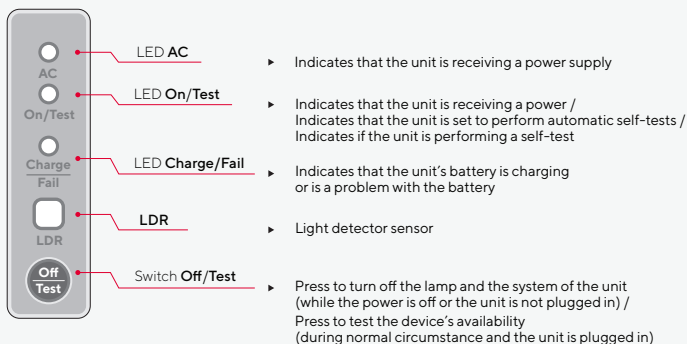
Bright Sense™
automatically activates illumination
when ambient light levels are insufficient



Technical Specifications

Mode of Operation	Non-Maintained
Operation Temperature	-10 to 50°C
Input Voltage	220-240VAC / 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	50Deg
Battery Type / Capacity	Lithium Iron Phosphate (LiFePO4) 3.2V-6000mAh
Protection Features	- AC, DC Fuse - Battery Low Voltage Cut-Off - Surge Protection
Testing Systems	Manual Test
Charging Method	3 Steps Charger System
Charging Current	0.1C
Charging Period	10-15 Hrs
Backup Time	3.0 Hrs
Housing	Plastic ABS Casing
Dimensions (L x W x H)	210 x 70 x 216 mm
Weight	1.00 Kg
Degree of Protection	IP20
Mounting	Wall Surface
Standards / Compliance	- TIS.902 Part2(22)-2560 - TIS.1955-2551 - ISO9001 - CE

Indicators



Product Overview

The SUNNY SGB Series emergency luminaire is designed to support power outage situations efficiently. It is a self-contained system with a built-in Lithium Iron Phosphate (LiFePO₄) battery, allowing the luminaire to operate continuously when the main power fails. It is suitable for installation in buildings, offices, and residential areas to enhance safety in all situations.

A key feature of the SGB Series is the **Bright Sense™** system, which detects the ambient light level and automatically controls the operation of the luminaire. When the surrounding light is insufficient, such as at night or in areas with illumination lower than 5 Lux, the system will activate the luminaire immediately. This helps improve convenience, reduces unnecessary on/off operation, and saves energy efficiently.

With automatic operation combined with a reliable emergency lighting system, the SGB Series is an ideal choice for users who require safety, convenience, and smart functionality in one unit.

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, backup power for 3 hours. It has the advantages of light weight, long service life and high power. It also causes less pollution

Functions

- The **Bright Sense™** system can automatically activate illumination when the surrounding light is insufficient, such as at night or in areas where the illumination level is lower than 5 Lux, using power from the main electricity supply rather than battery power.
- The operation can be tested manually (**Manual Test**)

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
- A Low Voltage Cut-Off to prevent the battery from draining completely

Warning Systems

- An LED will blink 4 times every 15 seconds to indicate that there is a problem charging the battery

Dimensions (mm)

