Product Specification



Product Description

This This multi-installation method evacuation indicator lamp supports hanging installation, ceiling-mounted installation, and wall-mounted installation,. adapting to various building spaces and installation conditions. It operates in maintained mode and integrates power .failure simulation, monthly/annual self-test, and manual emergency activation. The MCU-based control system precisely .manages battery charge/discharge, provides fault self-diagnosis, and ensures fast, reliable emergency transfer. Suitable .for residential, commercial, office, garage, corridor, and other indoor spaces.

Product Features

- Multiple installation options are available for various scenarios.
- MCU-managed battery charging/discharging: The intelligent MCU precisely controls charging and discharging, managing voltage and current to effectively extend battery service life.
- Self-check function: Built-in automatic self-diagnostic program periodically checks the battery, light source, and circuit status to ensure reliable activation in emergencies.
- Lithium iron phosphate battery: The built-in Li-ion battery offers excellent thermal stability, long cycle life, safety, and environmental friendliness.
- Low power consumption: The overall low-power design reduces energy consumption and operating costs, making it energy saving and eco-friendly.
- Flame-retardant materials: The housing is made of ABS engineering plastic, resistant to high temperature and aging, non-flammable, and reliable in use.

Applicable Scenarios



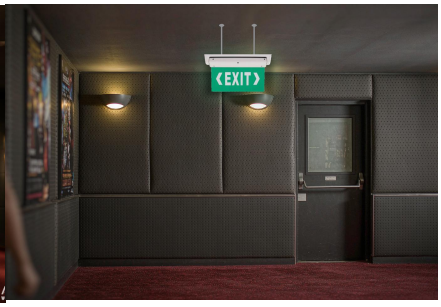
Shopping mall



School



Hotel



Cinema

Electrical Specificatins

Note: All parameters are measured at an input voltage of 230 Vac and an ambient temperature 25 °C . Special explanations will be given if there are special circumstances.

ITEM	Specification	ITEM	Specification
Input voltage	85-265Vac 50/60Hz	Emergency Switching Test	Manual Test (Test Button) / Auto-test (Monthly/Annually)
Rated Input Current	0.02 A Max.@230Vac	Abnormal Protection	Over-voltage, Over-current, Over-temperature, Short-circuit, and Open-circuit protection and Current limitation
Power Factor	≥ 0.5 @ 230 Vac	Color Options (Optional, depending on panel specification)	White (8500K) Red (λd = 625nm) Green (λd = 525nm)
Input Power	3W @ 230Vac	Body	ABS + PC
Operating Mode	Continuous	Body Color	Silver (Black or other colors available upon request)
Battery Pack	Li-ion 3.7V	Ingress Protection	IP30 (Indoor use)
Charge Current	200mA	Classification	Class I
Charge Time	≤ 15 hours (MAX)	IK Rating	IK07
Charging Voltage	4.2V ± 0.1V enter constant current/constant voltage charging; 4.2V cut off charging.	Operating Temperature	0°C to 45°C
Battery Cycle Life	≥ 500 cycles (at 0.5C charge/discharge, 25°C, to 80% of initial capacity); Replacement recommended every 3 years.	Extreme Temperature	-5°C to 50°C (Short-term Operation)
Emergency Duration	≥ 180min	Warranty	Battery Pack: 3-Year Warranty; Other Parts: 5-Year Warranty
Light source	SMD 2835 30 PCS LED	Certifications	CE, RoHS, LVD
Load power	3W	Product Dimensions	370 X 45 X 230 (mm)

Operation

- After the main power is connected, the red indicator light turns on, indicating that the system is charging.
- When the main power is in fault or blackout, emergency power kits will switch to emergency mode automatically and supply power to the load with a rated emergency power.
- After the main power is ON, the power kits will resume AC power supply mode, and the battery starts charging mode.

To ensure normal operation, performing the following tests periodically is advised:

Visually inspect the indicator light monthly; it should be green and stay on after being connected to the AC main power.

Switch off the AC main power to perform 30 seconds of discharging monthly.

Perform a full discharge annually.

Maintenance



Charging-Red light on



Fully charged-Green light on



Analog Emergency Mode — The green indicator light will flash slowly (1 Hz)



Fault-Red light flashes quickly

Function

Function	State
Auto-test Function	When the AC main power is in fault or blackout, emergency power kits will switch to emergency mode automatically and supply power to the load with a rated emergency power
Auto-test settings after installation	A. After the initial power-on, the device will perform the first monthly automatic test, and thereafter a monthly test every 30 days. If a power interruption occurs during the interval, the timing will restart. The simulated emergency duration each month is approximately 60 seconds. When entering the simulated monthly test mode, the power supply can smoothly switch to emergency mode, and the green indicator light will flash slowly (1 Hz). After the timing ends, it can return to charging mode normally. B. After the initial power-on and continuous charging for 24 hours to full charge, the device shall perform the annual automatic test every 52 weeks. If a power interruption occurs during the interval, the timing shall restart. During the annual test mode, the power supply shall smoothly switch to emergency mode, and the green indicator shall flash rapidly at 3 Hz. After the timing cycle ends, the device shall return to normal charging mode, and the battery voltage shall not fall below the over-discharge protection threshold. If low voltage is detected, it indicates severe battery degradation, and the battery must be replaced. At the same time, the orange indicator will flash rapidly to alert maintenance personnel.
Manually Test	A. Press and hold the test button for 4 seconds to force a 60-second monthly test. After the test is completed, the next monthly test (30 days) will be counted from that day. B. After the device has been powered on for at least 24 hours, press and hold the test button for 6 seconds to force a 30-minute annual test. After the test is completed, the next annual test (52 weeks) will be counted from that day.

Important Safety Notes

- The batteries should be charged and discharged once every six months (under normal conditions).
- Do not connect the battery to the circuit when it is not in use to prevent battery over-discharge due to self-consumption of the circuit board.
- The storage temperature should range from 0℃ to 35℃, and the humidity should be less than 85% to avoid shortening the battery storage time.
- For lithium batteries that are not used for a long time, it is recommended to discharge them at least once every six months.
- Avoid mechanical shock to the battery.
- Avoid putting the battery near fire or trying to remove it. The electrolyte in the battery is strong alkaline, which will damage the skin and clothes.
- Ensure that the battery polarity (+/−) is insulated to prevent short circuits.

Packaging Information

Model	Quantity per carton	Unit Weight	Inner Box Dimensions (L×W×H)	Carton Dimensions (L×W×H)	N.W	G.W
AS-B105	20	0.53	235 X50 X 375 (mm）	51.5 X 39 X 49.5 (cm)	10.7 kg	12.5 kg

Pattern Selection or Customization

- **Custom Light Color Available**

  Light color is customizable to red, green, blue, or white LED options, coordinated with the panel process (engraving, printing, film overlay, etc.) and printing color.

- **Custom Panel Pattern Available**

Choose from the patterns shown below, or let us know your requirements for custom colors and patterns.



More patterns available — contact us for the full catalog