

ES01

LED Explosion Proof Exit Light



Features:

- Emergency control power supply specially designed for the luminaire.
- EMC/EMI function.
- 3-hour emergency operation.
- Central locking is available.
- Label content can be customized.
- Low working wattage for energy saving.
- Ingress protection rating IP66.



Compliance:

- IECEx
- ABS
- IP66
- IK10
- 1000 hours salt spray

Explanation of Indicator Light:

- RED light on:
 1. Fast charging for 2 hours.
 2. Charging indicator, displaying 20% -80% battery capacity.
- GREEN light on:
 1. Trickle charging.
 2. Charging indicator, displaying 80% -100% battery capacity.
- YELLOW light on:
 1. Discharge below 20%.
 2. If the yellow light is on in any state, it indicates that the product is out of order.
- RED, YELLOW and GREEN lights on at the same time, or YELLOW and GREEN lights on at the same time:
It can be reset by testing the switch: first, power off. Then press and hold the switch for 5 to 6 seconds to ensure shutdown. Finally, power on again.

Description of Switch:

- 1. Press the switch "ON" once, the EXIT sign and indicator light will flash once, with an ON/OFF interval of 10 seconds.
- 2. With mains electricity disconnected, long press and hold the switch for 3 to 5 seconds to turn off the product. If the EXIT sign needs to be turned on again, it will be activated through mains electricity.
- 3. The product will automatically have monthly inspection. EXIT sign and indicator light will flash once every 30 or 31 days.
- 4. The product will automatically have an annual inspection. EXIT sign and indicator light will flash twice every year.

Two Options of Function:

- Model 1: EXIT sign remains on with or without mains electricity.
- Model 2: EXIT sign does not light up when there is mains electricity, but only lights up when there is a power outage.

Specifications:

Certifications:	
Global (IECEx):	Ex db eb mb q IIC T5/T6 Gb Ex tb IIIC 80°C / 95°C Db IP66
Rated voltage AC:	AC100~277V
Rated voltage DC:	DC12V~36V
Rated frequency:	50 / 60 Hz
Weight:	approx. 4.32 kg / 9.52 lb
Rated wattage:	Max 15W Regular wattage in normal mode: 3W
Lifespan:	<u>50,000 hours</u>
Warranty:	<u>5 years</u>
Cable entry:	There are two cable entries at each side wall of body which are used to install M25 or M20 certified cable glands or stopping plugs with suitable IP code.
Batteries:	3.7V, 2 A
Cable entry size:	M25×1.5, 3/4 NPT
Stopping plug:	M25×1.5
Emergency time:	
Escape route sign luminaires:	3 hours
Emergency lighting luminaires:	3 hours
Charging time*:	≥24 hours
Installed terminal strip:	PE + N + L
Connection terminals solid max.:	4mm ²
Connection terminals finely-stranded max.:	2.5mm ²

*Notice of Charging:

Quick charging for the first 2 hours to 20% to 80%, then followed by trickle charging to 80% to 100%. Once the battery level is below 100%, trickle charge comes in again.

Temperature Class:

Ambient temperature	Explosive gas atmosphere Temperature class	Explosive dust atmosphere Maximum surface temp
-20°C to +40°C	T6	T80°C
-20°C to +60°C	T5	T95°C

ES01 Series Explosion Proof LED Exit Sign

Model Encoding:

EX - **W ES01 * *

1 2 3 4 5

- "EX" means explosion proof product.
- The luminaire rated wattage: 1W to 15W. The rated power is a multiple of 0.5, with a minimum of 1W and a maximum of 15W.
Escape route sign luminaires: Max. 10W
Emergency lighting luminaires and Lighting luminaires: Max. 15W
- "ES01" designates type series.
- When the luminaires do not have a battery, the main function is lighting, and its value is "N". When the luminaires have its own battery and its main function is emergency lighting, its value is "Y". When the lamp is an emergency escape route sign luminaire, its value is "A" to "X".
- Designates Color temperature optional, it can be 27 to 70 denotes 2700K to 7000K, and each 100K gradually increase, max 7000K.
Note: Escape route sign luminaires do not have this option.

Standard Materials:

- Housing: Glass Fiber Reinforced Polyester Resin
- Cover: PC
- Bearing: Stainless steel
- Mounting Sling: Stainless steel

Emergency Control Power Supply:

Input voltage:	100-277VAC or 100-347VAC, 50/60Hz
Input current:	Max. 0.5A
Input power:	3W-15W
Output voltage:	3.15VDC
Output current:	Max. 3.15A
Emergency time:	3 hours
Response time:	0.5 second
Battery:	NCR18650B (1S1P); 3400mAh
Charge time:	≥24 hours



Image: Control Gear

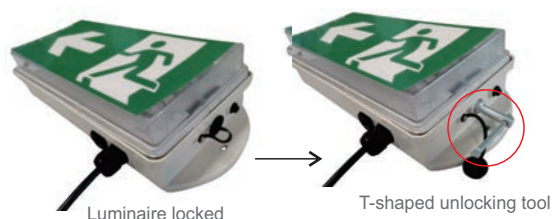


Image: Control Gear



Image: Battery

T-shaped unlocking tool:

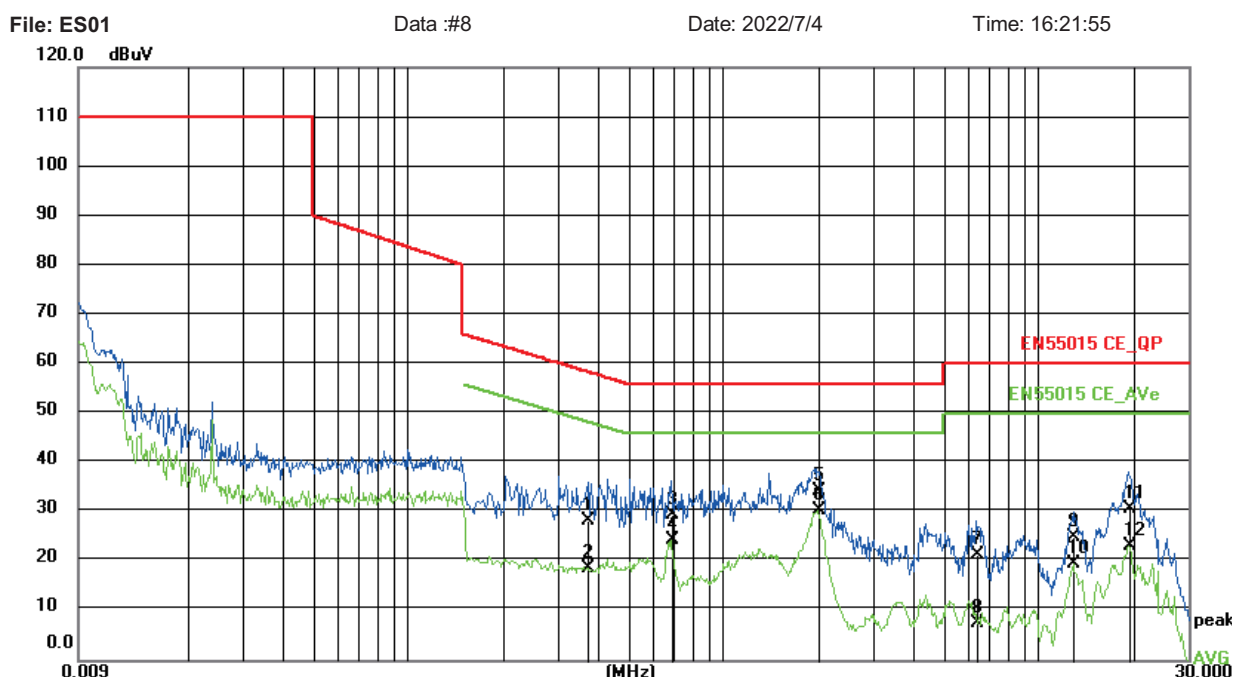


Each lamp is equipped with a T-shaped unlocking tool that can be used for all lamps.

EMI & EMC Diagram (1):

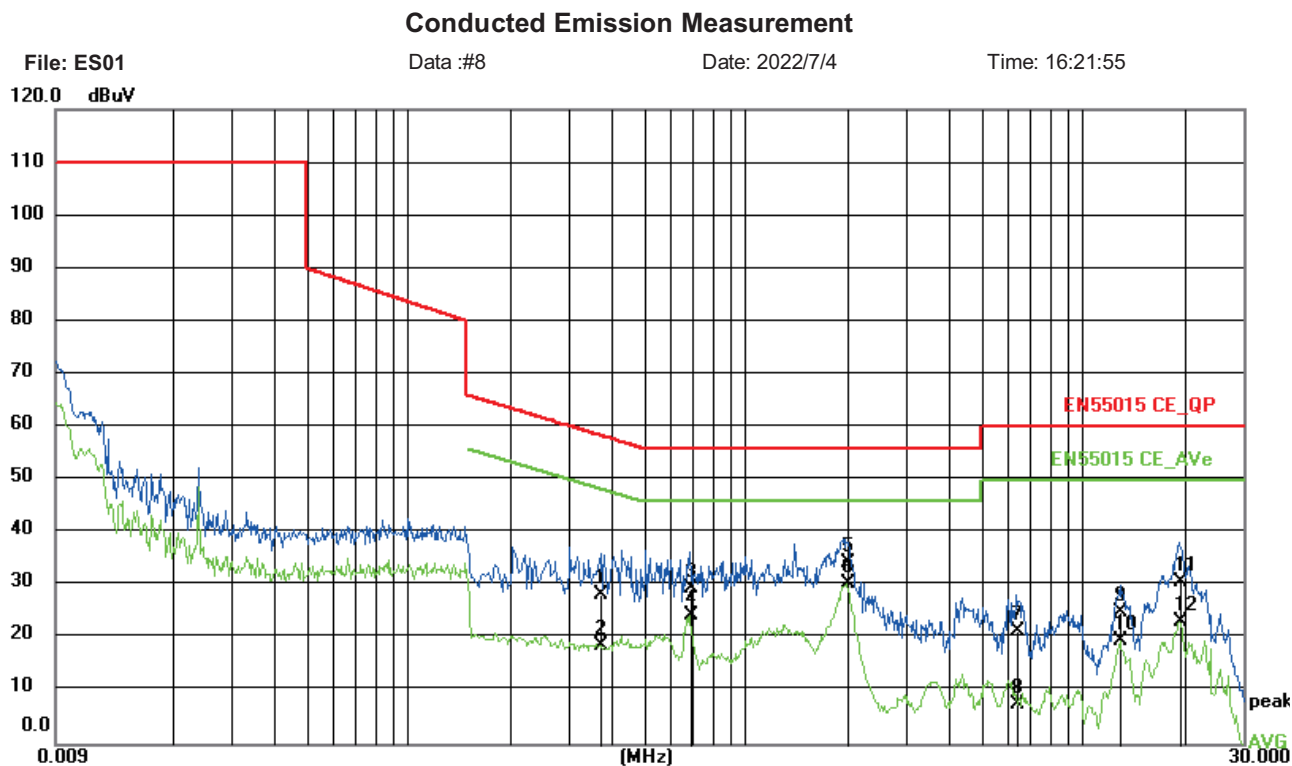
Impact of the product on the grid

Conducted Emission Measurement



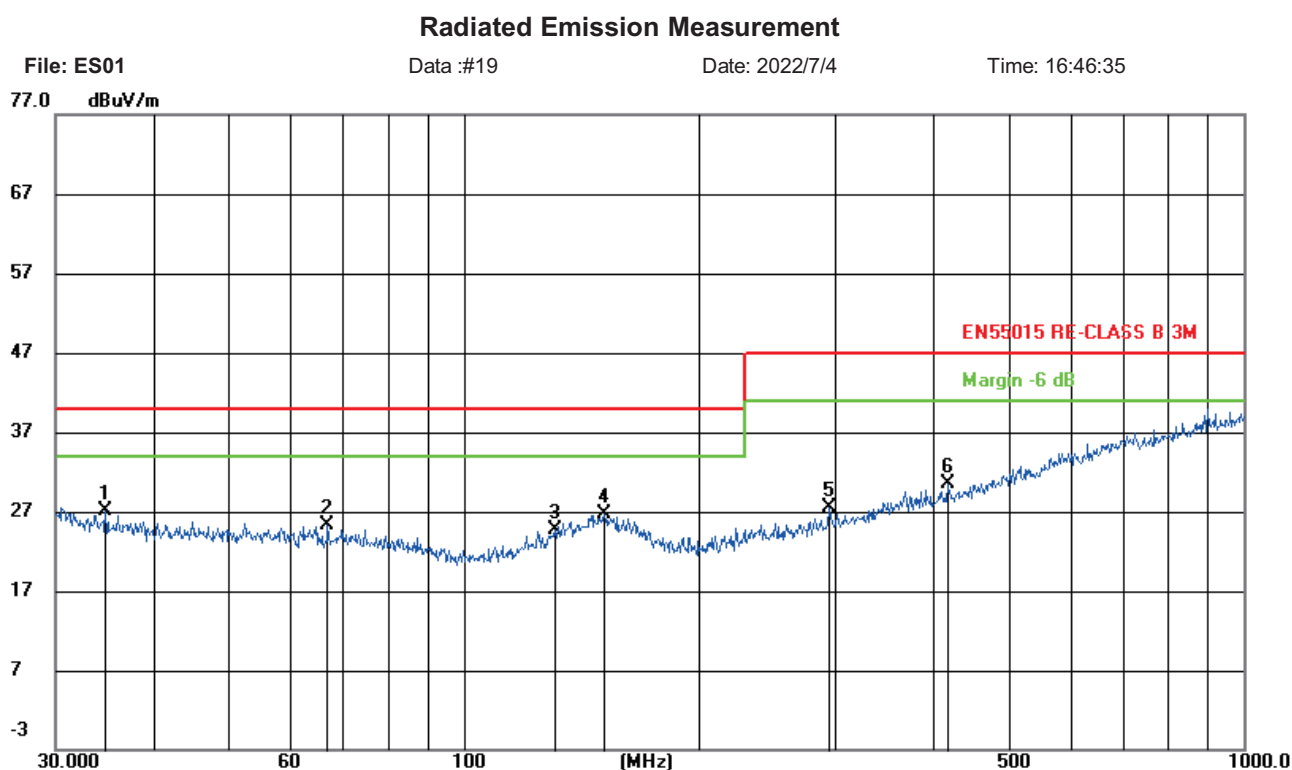
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EMI & EMC Diagram (2):



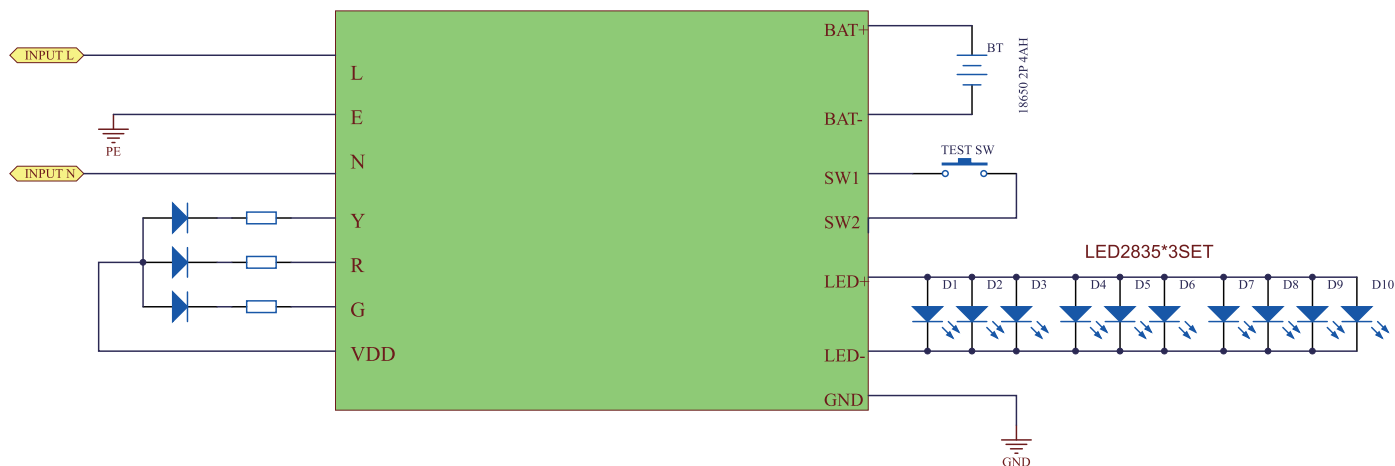
EMI & EMC Diagram (3):

Impact of the product on environmental location

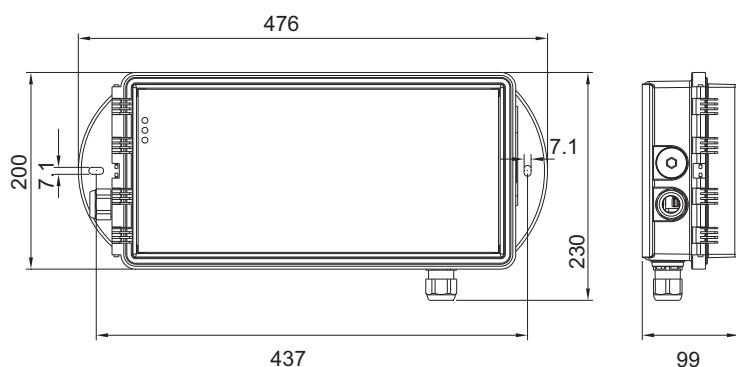


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Circuit Diagram:



Dimension in millimeters:



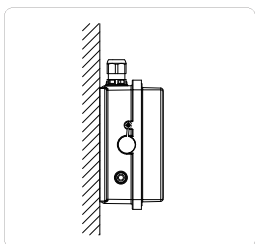
Label Content:

Label size: 365x165mm
Visible distance: 65.62ft/20 meters



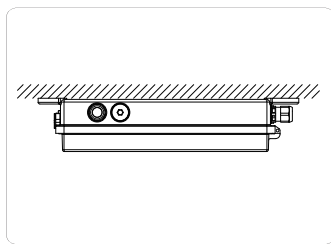
Mounting:

1.Wall Mounting:



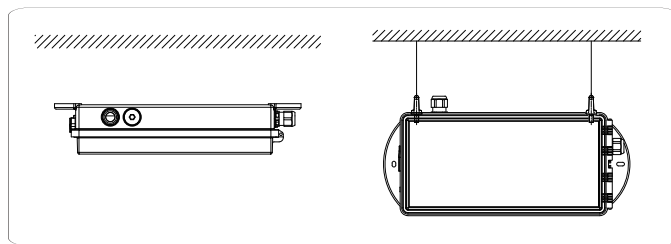
Open the cover by turning the regular hexagon spanner counterclockwise. Then connect the wire, fix the fixture to the wall.

2.Ceiling Mounting:



Fix the fixture to the ceiling through the two mounting holes on the fixture.

3.Pendant Mounting:



First, connect the two pendant strings with the fixture. Then fix it on the ceiling.

Packing Information:

Model	Quantity/Carton	Packing Size	Net Weight	Gross Weight
ES01	1 PC	350x550x180mm	4.32kg	5.30kg