LED EMERGENCY SPOTLIGHT EEC20-RS01

Feature

- Output power 1W
- Insulation Class: II
- Ingress Protection:IP20
- Emergency Duration: 3hours
- Battery Recharge Time: 24h
- Normal Function / Self-Test
- Polycarbonate white RAL 9016
- Charge indicator:Green LED
- Deep Discharge Protection DDP
- Non-maintained Operation

Description

The EEC20-RS01 series use for LED lighting,and use constant output current mode.These units will provide 1W maximum output power at emergency mode.They are designed to be highly efficient and highly reliable. There are four new functions on this unit:Overcharge;Over discharge;Over temperature and Reverse battery protection.

General Specification

Rated supply voltage	220-240VAC
Mains frequency	50/60Hz
Ambient temperature ta	0℃~45℃
Max. Casing temperature tc	70℃

Battery Discharge & Charge Specification

Parameter		Note
Battery discharge current	340-380mA	Measured at 3.2V input from battery
Output voltage	2.8-3.0Vdc	Measured at 3.2V input from battery
Output constant current	310-350mA	Measured at 3.2V input from battery
Emergency power	1W	Measured at 3.2V input from battery

Item Code	Batteries	Power	Clasification	Emergency time	Mode
EEC20-RS01-NN1WOBS	LiFePO4 3.2V/1500mAh battery	1W	120lm	3h	Open Area
EEC20-RS01-NN1WCBS	LiFePO4 3.2V/1500mAh battery	1W	130lm	3h	Corridor
EEC20-RS01-NN1WOST	LiFePO4 3.2V/1500mAh battery	1W	120lm	3h	Open Area
EEC20-RS01-NN1WCST	LiFePO4 3.2V/1500mAh battery	1W	130lm	3h	Corridor

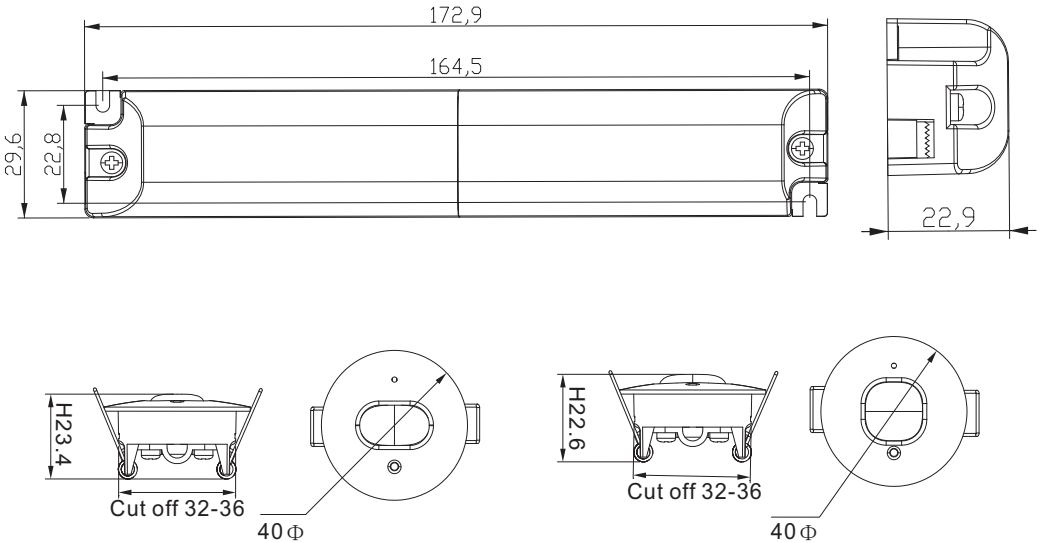
Note: All specifications are typical at 25℃ unless otherwise stated.

Important information for the installation

- The unit use dangerous mains voltage(220-240VAC,the converter will be the emergency mode when the mains voltage is less than 65% of rated voltage), it should be installed by qualified electricians only acco ding to European safety standard or relevant nation regulations.
- The emergency function test must be performed when a battery is fully charged for 24 hours
- Connect the LED lamps to the emergency LED converter with correct polarity according to the wiring diagram drawing
- Connect the unit to AC power only after the wiring been completed between emergency converter, battery and spotlight
- The emergency LED spotlight can only be used in indoors
- Battery should be charged once in three mouths in order to keeping it in initial performance
- Short-circuit protection (check all wires first, then cut off the battery plug, reset it after two or three seconds)
- If the unit is used for purposes other than originally intended or it is connected in the wrong way, no liability can be taken over for possible

Mechanical Outline

Unit:mm



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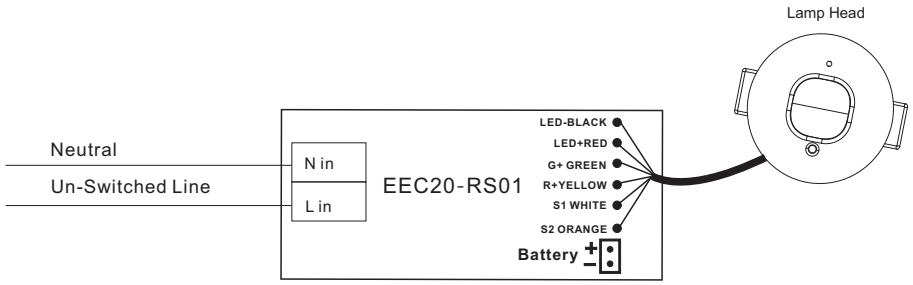
Wiring Diagram



1.The battery should be changed when the battery be failed on charging's ability
2.The LED's module from the light is replaceable
3.Building insulation may abut the sides of the luminaire

Testing/Commissioning(self test)

Functionality of the test switch
1) A short press (>1s) on the button start a function test lasting 5 seconds (The battery's capacity should be more than 5%=charging 30mins

2)Holding down the button(>10s) resets the timer(System-resets)
Functional test
The 5 second long, each 7 days' function test serves to check the functionality of the emergency unit, the batteries and LED module.

Notice.

-If a mains supply failure occurs whilst a functional test is in progress, the test shall be postponed and the system shall enter emergency operation. Following restoration of the mains supply, a postponed functional test shall re-commence

automatically as soon as conditions permit.

Duration test (EN)
-Initial duration test: The test will be carried out exactly 24 hours later after the initial installation.
-Half year duration test: The test will be carried out on each 180-182days.

Notice.
-A duration test shall only be started when the battery supply is fully charge if a mains supply failure occurs whilst aduration test is in progress, the test shall be postponed and the system shall enter emergency operation. Following restoration of the mains supply, a postponed duration test shall re-commence automatically when the battery supply

is fully re-charge
-The indicator will be slow flashing Green within 5 days if the duration test be carried out success fully.

Indicator LED

System status is locally by a bi-color indicator LED.

LED Indication	Status	Commentary
Permanent green	Standby,System OK	Mains Operation, battery is charged
Fast flashing green (0.25s on–0.25s off)	Function test underway	Function test underway
Slow flashing green (1 s on – 1 s off)	Duration test underway	Duration test underway
Permanent Red	Lamp failure	Open Circuit or Short Circuit or LED failure
Fast flashing red (0.25 s on – 0.25 s off)	Battery capacity failure	Battery failed duration test
Slow flashing red (1 s on – 1 s off)	Battery fault	Incorrect battery voltage or Short Circuit or Open Circuit
Green and red off	Battery Operation	Emergency mode: Mains disconnected or Mains failure

NOTICE

Fault status:

If an error is detected, the indicator LED switches to RED. If the error has been corrected please re-connecting the battery after the mains power off, the indicator LED immediately switches back to GREEN when mains power on.

NOTICE

Battery failed duration test:

After an exchange of the battery and holding down the button (>10S) reset the timer, the indicator LED switches to GREEN.

Important:

It is recommended that the unit is installed by a competent person ensuring the installation complies with the necessary standards.
The company accept no responsibility for incorrect installation, operation or maintenance.
After installation of the fitting, the battery must be charged for 24 hours.