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# Emergency Driver Series

Emergency Backup for Remote J-Box Downlight

| Catalog Number: | Project Name: | Note: | Date: | Type: |
|---|---|---|---|---|

## DESCRIPTION

The emergency LED driver is the best backup for flush mount series when power outrage happened suddenly.
The battery could support the **all kinds of Remote J-Box Downlight** working at least 90 minutes.
Once the power restore, the driver will switch to the charging mode automatically.
Ideal for hospitals, offices, schools, universities, shopping malls and other public buildings.

| MODEL# | ADAPTIVE POWER | EMERGENCY POWER |
|---|---|---|
| **EMCT03-18-MS5C5-D1** | 24W Max | 4W |

## TECHNICAL SPECIFICATION

| | |
|---|---|
| INPUT VOLTAGE | **AC 120-347V** |
| POWER FREQUENCY | **50/60Hz** |
| INPUT POWER (CHARGING) | **<2.5W** |
| BATTERY CAPACITY | **1600mAh** |
| EMERGENCY TIME | **90 Minutes** |
| INITIAL CHARGE TIME | **24 Hours** |
| COMPATIBLE LAMP TYPE | **Remote J-Box Downlight** |
| LED INDICATOR | **Red indicator** |
| BATTERY TYPE | **LiFePO4** |
| CCT | **2700K \| 3000K \| 3500K \| 4000K \| 5000K** |
| OUTPUT CURRENT OF POWER | **320mA \| 280mA\| 240mA \| 200mA \|160mA** |
| DIMMABLE | **Triac Dimmable & 0-10V** |
| COLOR | **Grey** |
| DIMENSIONS | **247*70*35mm** |
| NET WEIGHT | **0.6KG** |
| OPERATING TEMP | **(32°F~ 122°F) 0~50°C** |
| WARRANTY | **5 years** |

## FEATURES

- Constant current output.
- Combined LED normal driver and emergency converter 2 in 1.
- Accessary test switch and charge indicator.

## PROTECTIONS

1. Input over current protection.
2. Output over voltage protection, output under current protection, output short circtit protecton.

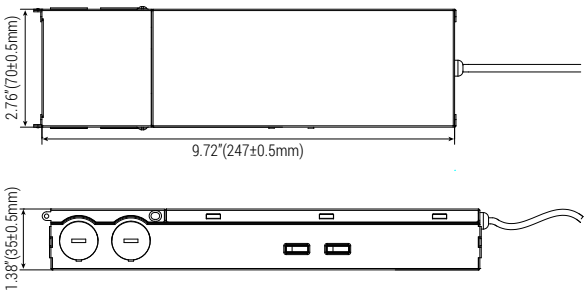
## SWITCH TEST

1. When the main power supply is connected and enters the normal state, press the test switch and the emergency conversion kit will enter the emergency mode.
2. If the test switch is not pressed normally, the charging mode is entered.
3. In the emergency state, hold down the test switch for 3 seconds to turn off the emergency state.

## INDICATOR LIGHT

1. Red light constantly on: Normal charging mode or fully charged.
2. Red light off: Battery not in place, main power supply turned off, or discharge mode.

## DIMENSIONS




## Operation

| Charging Mode | | |
|---|---|---|
| AC Power / ON | Charging | Full-charged |

| Discharging Mode | | |
|---|---|---|
| AC Power / OFF | Discharging | Emergency Mode |

## Instruction light

| Red---ON | |
|---|---|
| RED /ON: **Charging** | Red ON |

| Red---OFF | |
|---|---|
| RED /OFF: **Discharging** | Red OFF |

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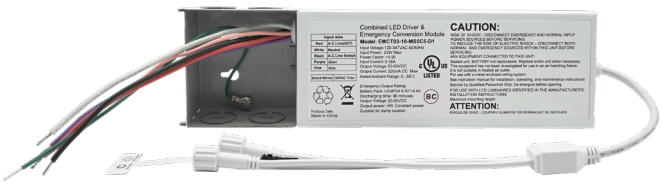
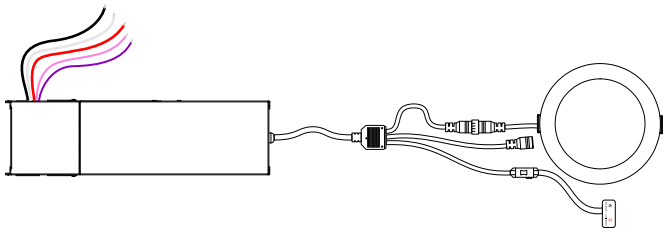


Status Indicator Light  Output Current Of Power  CCT Sectable

| Output voltage (drive supply) | Output current (drive supply) | Output voltage load 30V(5%) | Output voltage load 50V(5%) | Output power (drive supply)(5%) |
|---|---|---|---|---|
| **30-50V** | 160mA | 5.4W | 8.2W | **4.5~16.8W** |
| | 200mA | 6.7W | 10.6W | |
| | 240mA | 7.9W | 12.6W | |
| | 280mA | 9.3W | 14.9W | |
| | 320mA | 10.6W | 16.8W | |

| ***Input Wire*** | | | |
|---|---|---|---|
| **Red** | A.C.Line(24/7) | **Green** | Ground |
| **White** | Neutral | **Purple** | Dim+ |
| **Black** | A.C,Line Switch | **Pink** | Dim- |



## MPORTANT

The battery should be charged and discharged at least once every three months to ensure its lifespan. It should not be left idle or continuously charged for more than 6 months.

## USAGE INSTRUCTIONS

**1.**The installation of emergency lighting fixtures should be carried out by qualified professionals, and only after the wiring is properly connected can it be powered by the mains.

**2.**Ensure all wiring is connected, and prior to connecting to the mains, the battery should be connected.

**3.**When working with the wiring in battery discharge mode, it is imperative to disconnect the battery first to avoid live output, which poses risks of short circuit damage and electric shock.

**4.**After connecting the circuit to the mains, press the test switch. This will cause the entire lamp to switch from its normal charging mode (or normal lighting mode) to emergency mode. Releasing the switch will automatically restore the lamp to its charging mode.

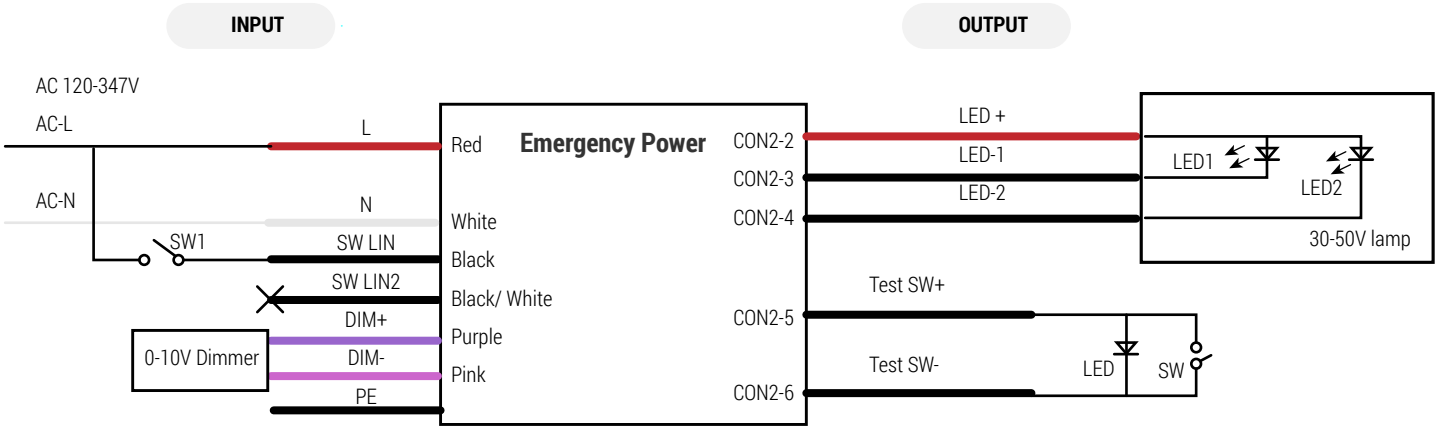
## RECOMMENDED TRIAC DIMMER

| LUTRON | | | | | LEVITON | |
|---|---|---|---|---|---|---|
| CTCL-153PDH-WH<br>TGCL-153PH-LA<br>DVCL-153P | MSCL-OP153M<br>PD-6WCL<br>S2-LFSQH-WH | S2-LFSQH-WH<br>CT-103PR-WH<br>MACL-153MR | DVWCL-153PH<br>RCL-153RNL | DVRF-6L<br>CTCL-150H | 6672<br>6674 | RNL06<br>DSL06 |

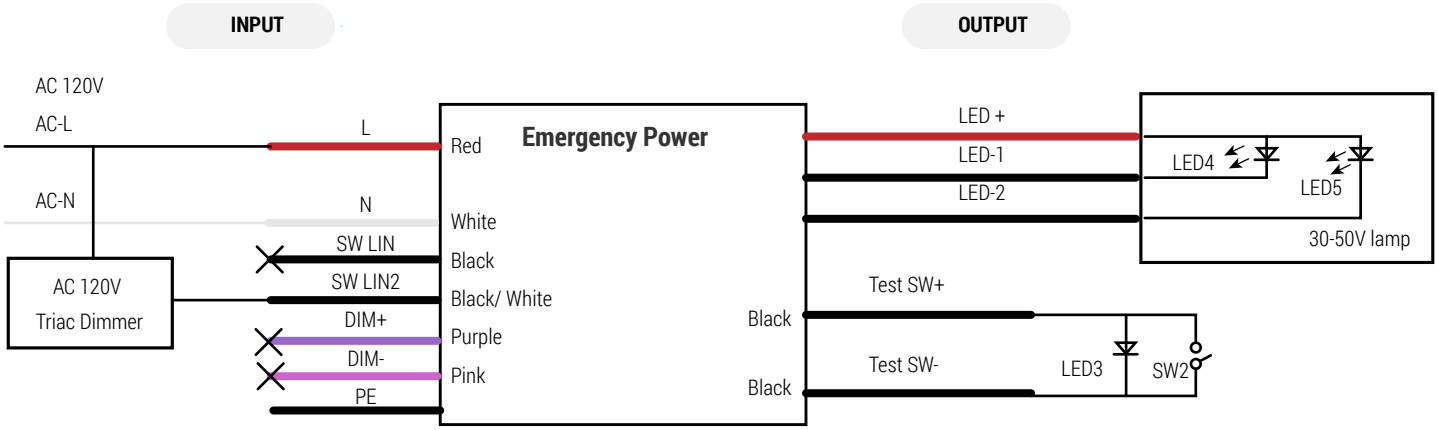
## RECOMMENDED 0-10V DIMMER

| LUTRON | LNTERTEK | LEVITON |
|---|---|---|
| DVSTV-WH<br>DECOR DIMMER | KGM-1A010AV | IP710 |

## 0-10V dimming application wiring diagram (AC 120-347V)




## Triac dimming application wiring diagram (AC 120V)




## CAUTION

- Make sure all electrical connections conform to the National Electrical Code and all applicable local regulations.
- This is a sealed unit. Components are not replaceable. Replace the entire LED Emergency Backup unit when necessary.
- Equipment should be mounted in locations and at heights where it is not be subjected to tampering by unauthorized personnel.
- The use of accessory equipment is not recommended by the manufacturer and may cause an unsafe condition.
- Use with grounded, UL Listed, dry or damp location rated fxtures. Case should also be grounded.
- Battery is rechargeable Li-ion type and must be recycled or disposed of properly.
- Suitable for use in 0°C -50°C ambient temperatures.
- Please do not place the battery near fire or heat sources; refrain from throwing the battery into a fire; avoid using or charging the battery in locations that exceed the specified temperature parameters; and never get the battery wet, soak it, or throw it into water or seawater.