

Product Specification

Emergency Module - INV003 PLEM36P (LEM072C036)

LED PANEL/DOWNLIGHT

Emergency Module

Product Appearance



Product Description

Theta Series Emergency Lighting Power Kit is a newly designed type of emergency power supply.

It is tailor-made for **LED panels/Downlight or other Lighting with separated driver,**. The emergency power kit equipped with the inverter, battery pack and the necessary accessories. The control circuit monitors the mains supply, if the light works as normal, the inverter allows the charger to trickle charge the battery pack in standby mode. In the event of an earthquake, explosion, accident or other emergency which results in the AC power supply to fail, the inverter automatically activates the battery backup system and switches the light on in less than 0.1 second. The system can be programmed emergency running time of 1 /2/ 3 hours depending on different battery packs to meet the requirements under various conditions.

Range of Application

1. This product is applicable for 1W to 150W LED Panel Emergency lighting, Emergency output power is 1W to 25W, Emergency duration is from 0.5 to 4hours.

2. This product is also applicable for any led lighting, output voltage DC3.6V to 80V.
3. Operates in -25-+70 environment temperature.

Product Feature

1. Intelligent automatic recharging and converting function
2. Constant current battery charger
3. 1/2/3 hours emergency operation
4. Led charge status display
5. Inverter with multiple protection functions:charge protection,discharge protection, short circuit protection
6. Facility for a Test switch to inspect between Emergency and normal lighting function
7. Supplied with high brightness green/Red LED (manual test)
8. Complete with flex and plug
9. Push-wire terminal blocks for easy wiring installation
10. High quality of NiCD rechargeable battery with 2 years of life.
11. Small volume, convenient and flexible installation

Technical Specification

Inner package material	Retardant White Plastic
Charging power	AC110V-AC265V, 50HZ/60HZ;
Emergency time	30~240mins
Emergency conversion time	Less than 0.1Sec;
Charging time	24h
emergency output current	20~800mA
Battery capacity	NI-CD3.6~12V 0.5~8.5AH
Emergency output voltage	DC3.6~80V
Inverter dimension	155×40×30mm

Battery dimension	
Product weight	100g/pcs(no battery)

Installation

1. L (line) and N (neutral) must be charged all the time, external connection with control switch is prohibited.
2. Strictly comply with the wiring diagram to connect circuit in other conditions

1	⊕
2	L
3	N
4	SL
5	N
6	L
7	Test
8	Test

Theta Electronics
Electronic Component Distributors

EMERGENCY MODULE

Un: 110-240V~ 50/60Hz
Lamp: LED 3~150V/20~800mA
Battery: Ni-CD 3. 6~12V
Charge time: 24hours
Discharge time: 1~3hours
Ta: 50°C max
Tc: 75°C

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LED -	16
LED +	15
Driver -	14
Driver +	13
BAT -	12
BAT +	11
Power -	10
Power +	9

Note: DO NOT CONNECT THE BAT IN OPPOSITE DIRECTION

Connection diagram

The diagram illustrates the electrical connections for the Emergency Module. It shows an AC power source with Line (L) and Neutral (N) wires. The L wire is connected to terminal 2 (L) and terminal 6 (L). The N wire is connected to terminal 3 (N) and terminal 5 (N). A switch is connected to terminal 4 (SL) and terminal 7 (Test). The LED Driver is connected to terminal 13 (+) and terminal 14 (-). The Battery (BAT) is connected to terminal 11 (+) and terminal 12 (-). The Power source is connected to terminal 9 (+) and terminal 10 (-). A photograph of the module is shown in the upper right corner of the diagram area.

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Attention

1. Pay extra attention to the negative and the positive pole of the battery in order to prevent reverse operation, please use designated and matching batteries and ensure all wiring is done correctly and stable before use.
2. If you need to do product testing, unplug the battery pack when the emergency device is disconnected from the mains supply, and then plug in the battery after the emergency device is completely shut down.
3. Comply with the wiring connection circuit diagram completely, prevent from over loading and non loading in the process of use and testing.
4. In order to prolong the battery powered lighting time, all indicator lights are switched off during normal use with the emergency power system in standby mode.
5. The battery is not charged before leaving the factory; please charge the battery longer than 24 hours before use.
6. In general, the battery needs to be fully charged and discharged for around 3- 5 times in order for the Ni-CD/Ni-MH battery to operate at full capacity.
7. It is detrimental for the Ni-CD/Ni-MH battery to lie idle for a long time, especially when it runs dead. Charge the battery completely when it is out of operation for a long time. (The battery cannot lie idle for more than three months)

Service and warranty

1. The warranty is applicable for 6 months. According to national standards, a replacement is mandatory after constantly using for 3 years. During the warranty period, it can be replaced with any quality problems (except for man-made factors).
2. Requires professional maintenance after emergency power installation, in case of any abnormal conditions happening, please maintain in time or inform our company to send professionals to provide technical support.