



**ESV** 簡約照明有限公司  
ESLight LIMITED COMPANY

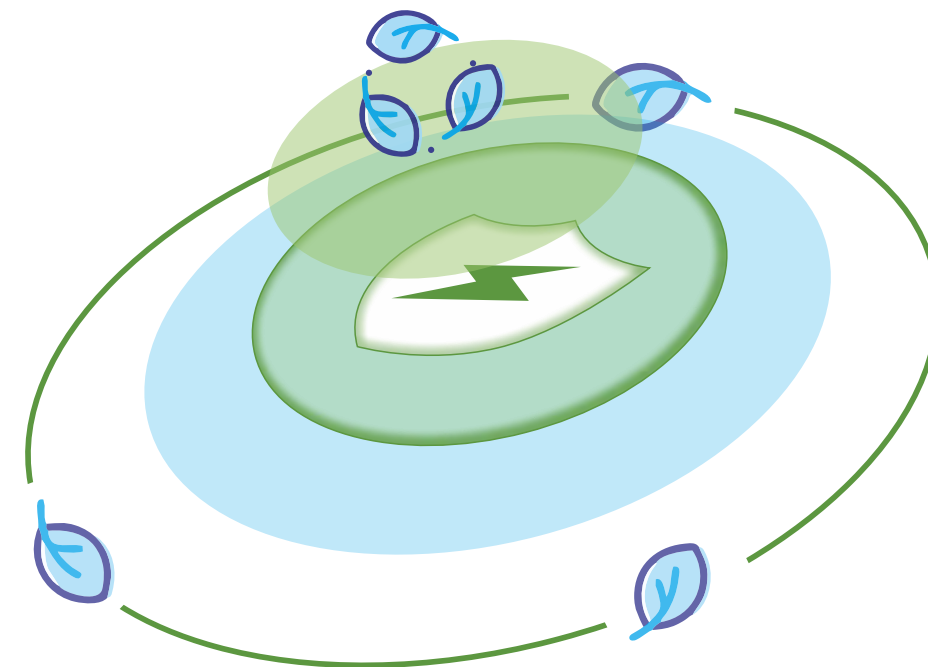
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ESLight LIMITED COMPANY

# CATALOG

Emergency Power Supply  
Product Series

[www.eslight.com.hk](http://www.eslight.com.hk)





## ESLight LIMITED COMPANY 簡約照明有限公司

ESLight LIMITED COMPANY has been established in Mainland China since 2020. The company is committed to the development, manufacturing and marketing of green, low-carbon and energy-saving lighting products. Become a professional high-end lighting design, OEM/ODM manufacturer and supplier.

### Product capacity:

1. Integrated design of LED lighting and built-in advanced electronic driver for building lighting renovation.
2. LED indoor and outdoor lighting with internal and external drivers.
3. LED lighting emergency accessories and charging bag.
4. Ultra-long life induction lamp is used for high-power high bay lights and floodlights.
5. Carry out OEM/ODM energy-saving lighting according to customer requirements for new retrofit installation.

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# Types and Differences of Power Sources

## 電源的種類及區別

### Ni-Cd

中文名: 鎳鎘電池

外文名: Nickel-Cadmium Batteries

充放電數: 重複500次以上

特點: 經濟耐用

屬性: 直流供電電池

電壓: 1.2V左右

適宜溫度: -30°C-50°C

鎳鎘電池是一種直流供電電池，鎳鎘電池可重複500次以上的充放電，經濟耐用。其內部抵制力小，既內阻很小，可快速充電，又可為負載提供大電流，而且放電時電壓變化很小，是一種非常理想的直流供電電池。

Nickel cadmium batteries are a type of DC powered battery that can repeat charging and discharging more than 500 times, making them economical and durable. Its internal resistance is small, making it an ideal DC power supply battery for fast charging and providing large current to the load. Moreover, the voltage change during discharge is minimal.

### Characteristics of Batteries

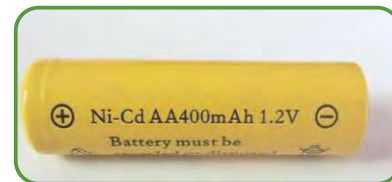
- 鎳鎘電池可重複500次以上的充放電，非常的經濟；
- 內阻小，可供大電流的放電，當它放電時電壓的變化很小，作為直流電源是一種質量極佳的電池；
- 與其他種類電池相比之下，鎳鎘電池可耐過充電或放過電，操作簡單方便；
- 長時間的放置下也不會使效能劣化，當十分充完電後即可恢復原來的特性；
- 可使用在很廣的溫度範圍內；

- Nickel cadmium batteries can repeat charging and discharging more than 500 times, which is very economical;
- With low internal resistance, it can provide high current discharge. When it discharges, the voltage changes very little, making it an excellent quality battery as a DC power source;
- Compared with other types of batteries, nickel cadmium batteries can withstand overcharging or discharging, and are easy and convenient to operate;
- Prolonged storage will not cause performance degradation, and the original characteristics can be restored after being fully charged;
- Can be used over a wide temperature range;

### Disadvantages

- 鎳鎘電池可大電流快速充電，又可為負載提供大電流，而且放電時電壓變化很小，但它的充電效率較低，記憶效應嚴重。
- 由於大量使用的鎳鎘電池(Ni-Cd)中的鎘有毒，使廢電池處理複雜，環境受到污染，因此它將逐漸被用儲氫合金做成的鎳氫充電電池(Ni-MH)所替代。

- Nickel cadmium batteries can charge quickly with high current and provide high current to the load. Moreover, the voltage change during discharge is minimal, but their charging efficiency is low and the memory effect is severe.
- Due to the toxicity of cadmium in the widely used nickel cadmium batteries (Ni-Cd), the treatment of waste batteries is complex and the environment is polluted. Therefore, it will gradually be replaced by nickel hydrogen rechargeable batteries (Ni-MH) made of hydrogen storage alloys.



### Ni-MH

中文名: 鎳氫電池

外文名: Ni-MH Batteries

正極: NiO電極

負極: 金屬氫化物

分類: 高壓鎳氫電池和低壓鎳氫電池

特點: 性能良好的蓄電池

鎳氫電池是一種性能良好的蓄電池。鎳氫電池分為高壓鎳氫電池和低壓鎳氫電池。鎳氫電池正極活性物質為Ni(OH)<sub>2</sub>(稱NiO電極)，負極活性物質為金屬氫化物，也稱儲氫合金(電極稱儲氫電極)，電解液為6mol/L氫氧化鉀溶液。

Nickel hydrogen batteries are a type of battery with good performance. Nickel hydrogen batteries are divided into high-voltage nickel hydrogen batteries and low-voltage nickel hydrogen batteries. The positive electrode active material of nickel hydrogen batteries is Ni(OH)<sub>2</sub> (NiO electrode), and the negative electrode active material is metal hydride, also known as hydrogen storage alloy (electrode called hydrogen storage electrode). The electrolyte is a 6mol/L potassium hydroxide solution.



### Characteristics of Batteries

#### 低壓鎳氫電池

- 電池電壓為1.2~1.3V，與鎘鎳電池相當；
- 能量密度高，是鎘鎳電池的1.5倍以上；
- 可快速充電，低溫性能良好；
- 可密封，耐過充放電能力強；
- 無樹枝狀晶體生成，可防止電池內短路；
- 安全可靠對環境無污染，無記憶效應等。

#### Low Voltage Ni-MH Batteries

- The battery voltage is 1.2-1.3V, which is equivalent to cadmium nickel batteries;
- High energy density, more than 1.5 times that of cadmium nickel batteries;
- Can be quickly charged and discharged, with good low-temperature performance;
- Sealable, with strong resistance to overcharging and discharging;
- No dendritic crystal formation, which can prevent short circuits inside the battery;
- Safe, reliable, pollution-free, and memory free.

#### 高壓鎳氫電池

- 可靠性強。具有較好的過放電、過充電保護，可耐較高的充放電率並且無枝晶形成。其質量比容量為60A·h/kg，是鎘鎳電池的5倍。
- 循環壽命長，可達數千次之多。
- 與鎘鎳電池相比，全密封，維護少。
- 低溫性能優良，在-10°C時，容量沒有明顯改變。

#### High Voltage Ni-MH Batteries

- Strong reliability. It has good protection against over discharge and over charging, can withstand high charging and discharging rates, and has no dendrite formation. Its mass to capacity ratio is 60A·h/kg, which is 5 times that of cadmium nickel batteries.
- Long cycle life, up to thousands of times.
- Compared to nickel cadmium batteries, it is fully sealed and requires less maintenance.
- Excellent low-temperature performance, with no significant change in capacity at -10 °C.

### Disadvantages

- 鎳氫電池的資料成本高，價格比鎘鎳電池要貴很多，效能比鋰電池要差，並且自放電率高，高溫充電效能差，1.2V電壓無法滿足現在智能家居使用。

- The material cost of nickel hydrogen batteries is high, and the price is much more expensive than nickel cadmium batteries. The performance is worse than lithium batteries, and the self discharge rate is high. The high-temperature charging performance is poor, and the 1.2V voltage cannot meet the requirements of smart home use today.



## Li-ion

中文名: 鋰離子電池  
類別: 二次電池

外文名: lithium ion cells and batteries  
特點: 電池能量密度大, 平均輸出電壓高



鋰離子電池是一種二次電池(充電電池), 它主要依靠鋰離子在正極和負極之間移動來工作。在充放電過程中,  $\text{Li}^+$  在兩個電極之間往返嵌入和脫嵌: 充電時,  $\text{Li}^+$  從正極脫嵌, 經過電解質嵌入負極, 負極處於富鋰狀態; 放電時則相反。

Li-ion batteries are a type of rechargeable battery that primarily relies on the movement of lithium ions between the positive and negative electrodes for operation. During the charging and discharging process,  $\text{Li}^+$  is intercalated and deintercalated back and forth between the two electrodes: during charging,  $\text{Li}^+$  is deintercalated from the positive electrode, embedded into the negative electrode through the electrolyte, and the negative electrode is in a lithium rich state; When discharging, the opposite is true.

### Characteristics of Batteries

- 鋰離子電池為一種高能量密度電池, 能量比較高;
- 電壓高: 單體電池的工作電壓高達3.7-3.8V (磷酸鐵鋰的是3.2V), 是Ni-Cd、Ni-MH電池的3倍。
- 鋰電池它可以與專用充電器配合, 達到最短的充電時間、最大的壽命週期及最大的容量;
- 鋰電池充電效率較高, 且沒有記憶效應;
- 自放電小: 室溫下充滿電的Li-ion儲存1個月後的自放電率為2%左右, 大大低於Ni-Cd的25-30%, Ni-MH的30-35%。
- 快速充電: 1C充電30分鐘容量可以達到標稱容量的80%以上, 磷酸鐵電池可以達到10分鐘充電到標稱容量的90%。
- 工作溫度為-25~45°C, 隨著電解液和正極的改進, 期望能擴寬到-40~70°C。

- Lithium ion batteries are a type of high-energy density battery with a relatively high energy density;
- High voltage: The working voltage of a single cell battery is as high as 3.7-3.8V (3.2V for lithium iron phosphate), which is three times that of Ni Cd and Ni MH batteries.
- Lithium batteries can be paired with dedicated chargers to achieve the shortest charging time, maximum lifespan, and maximum capacity;
- Lithium batteries have high charging efficiency and no memory effect;
- Low self discharge: The self discharge rate of Li ion, which is fully charged at room temperature and stored for one month, is about 2%, much lower than 25-30% of Ni Cd and 30-35% of Ni MH.
- Fast charging: 1C charging for 30 minutes can reach a capacity of over 80% of the nominal capacity, while ferrophosphate batteries can reach a capacity of 90% of the nominal capacity after 10 minutes of charging.
- The working temperature is -25~45 °C. With the improvement of electrolyte and positive electrode, it is expected to be expanded to -40~70 °C.

### Disadvantages

- 與其它充電電池不同, 鋰離子電池的容量會緩慢衰退, 與使用次數有關, 也與溫度有關。
- 不耐受過充: 過充電時, 過量嵌入的鋰離子會永久固定於晶格中, 無法再釋放, 可導致電池壽命短。
- 不耐受過放: 過放電時, 電極脫嵌過多鋰離子, 可導致晶格坍塌, 從而縮短壽命。

- Unlike other rechargeable batteries, the capacity of lithium-ion batteries will slowly decline, depending on the number of uses and temperature.
- Inability to withstand overcharging: During overcharging, excessively embedded lithium ions will be permanently fixed in the lattice and cannot be released, which can lead to a short battery life.
- Inability to withstand over discharge: During over discharge, excessive lithium ions are removed from the electrode, which can cause lattice collapse and shorten the lifespan.

## The Difference Between Ni-Cd, Ni-MH and Li-ion



### Ni-Cd 鎳鎘電池

這種電池有充電記憶效應, 如果沒有完全放電就充電, 會令容量降低, 鎘也是一種重金屬有害物質, 對環境有污染。

### Ni Cd

This type of battery has a charging memory effect. If it is charged without complete discharge, it will reduce its capacity. Cadmium is also a harmful heavy metal substance that pollutes the environment.

### Ni-MH 鎳氫電池

屬於高容量電池, 不存在充電記憶效應, 容量比同類鎳鎘電池高, 電池效能比鋰電池差一些, 但價格也便宜一些。

### Ni MH

Belonging to high capacity batteries, there is no charging memory effect, and the capacity is higher than similar nickel cadmium batteries. The battery efficiency is slightly worse than lithium batteries, but the price is also cheaper.

### Li-ion 鋰離子電池

比鎳鎘, 鎳氫電池有更高的容量和更輕的重量壽命也最長, 充電時間最短, 無記憶效應。電量儲備大但需用專用充電器, 用普通充電器會降低充電效果和壽命。效能方面最好的是鋰電池, 現時大部分數碼產品都使用鋰電池。

### Li-ion

Compared to nickel cadmium, nickel hydrogen batteries have higher capacity, lighter weight, longest lifespan, shortest charging time, and no memory effect. The battery reserve is large but requires a dedicated charger. Using a regular charger will reduce charging efficiency and lifespan. The best in terms of efficiency is lithium batteries, which are currently used in most digital products.

## 100% full power emergency lighting power supply

全功率100%應急照明電源



No-load protection, constant current limited voltage charging.

Charge and discharge double protection plate, ensuring the safety of lithium battery pack.

空載保護, 恒流限壓充電;  
充放電雙重保護板, 保證鋰電池組使用安全。



## LED Emergency Power Supply

### EL168N (1W-10W) 100% emergency lighting

Applicable to all LED lamps below 10W, including LED fluorescent lamp, LED down lamp and other emergency lighting;



#### Technical Parameters:

Input: AC100-277V/50HZ-60HZ

Output: AC/DC 100-277V/50HZ-60HZ

Power: <10W

Emergency Time: 2-3 hours

Battery: 7.4V Li-ion battery

Size: L \* W \* T=150\*40\*30mm

#### Product Feature

- Full power emergency lighting, the emergency lighting brightness is equal to the municipal lighting brightness.
- International line, three-color indicator light, detection button.
- No-load protection, constant-current voltage-limited charging, and charge-discharge dual protection board ensure the safety of lithium battery pack.
- Self-inspection function fault alarm function.
- The user can check the discharge condition of the inverter regularly, that is, cut off the mains power supply and use the battery to discharge the lighting until the automatic termination.

#### Note

The battery adopts 7.4V Li-ion battery. Do not use Ni-Cd or Ni-MH batteries. Digital circuits can cause nickel battery packs to overdischarge.

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.

## LED Emergency Power Supply

### EL168H (8W-24W) 100% emergency lighting

Applicable to all LED lamps of 8-24W, including LED fluorescent lamp, LED down lamp and other emergency lighting.



#### Technical Parameters:

Input: AC100-265V/50HZ-60HZ  
 Output: AC/DC 100-265V/50HZ-60HZ  
 Power: 8-24W  
 Emergency Time: 2-3 hours  
 Battery: 12.8V lithium iron phosphate battery/  
 11.1V Li-ion battery/12V nickel battery pack  
 Size: L \* W \* T=168\*38\*28mm

#### Product Feature

- Full power emergency lighting, the emergency lighting brightness is equal to the municipal lighting brightness;
- International line, three-color indicator light, detection button;
- No-load protection, constant-current voltage-limited charging, and charge-discharge dual protection board ensure the safety of lithium battery pack;
- The user can check the discharge condition of the inverter regularly, that is, cut off the mains power supply and use the battery to discharge the lighting until the automatic termination.

#### Note

The battery shall be 11.1V Li-ion ternary battery or 12.8V lithium iron phosphate battery pack.  
 Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.

168H emergency power panel is not universal when the chemical composition type of battery is different. Please pay attention to the identification

## LED Emergency Power Supply

### EL518H (18W-36W) 100% emergency lighting

Applicable to all LED lamps below 36W, including LED fluorescent lamps, LED downlights and other emergency lighting.



#### Technical Parameters:

Input: AC100-277V/50HZ-60HZ  
 Output: AC/DC 100-277V/50HZ-60HZ  
 Power: 18W-36W  
 Emergency Time: 2-3 hours  
 Battery: 12.8V lithium iron phosphate battery/  
 11.1V Li-ion battery  
 Size: L \* W \* T=168\*38\*28mm

#### Product Feature

- Full power emergency lighting, the emergency lighting brightness is equal to the municipal lighting brightness.
- International line, three-color indicator light, detection button.
- No-load protection, constant-current voltage-limited charging, and charge-discharge dual protection board ensure the safety of lithium battery pack.
- Self-inspection function fault alarm function.
- The user can check the discharge condition of the inverter regularly, that is, cut off the mains power supply and use the battery to discharge the lighting until the automatic termination.

#### Note

The battery shall be 11.1V Li-ion ternary battery or 12.8V lithium iron phosphate battery.

Do not use Ni-Cd or Ni-MH batteries. Digital circuits can cause nickel battery packs to overdischarge.

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.



## LED Emergency Power Supply

### EL518H50 (30W-55W) 100% emergency lighting

Applicable to all LED lamps below 30W-55W, including double-tube LED fluorescent lamp, LED panel lamp, tunnel lamp, floodlight, miner's lamp and other emergency lighting.



#### Technical Parameters:

Input: AC100-277V/50HZ-60HZ  
 Output: AC/DC 100-277V/50HZ-60HZ  
 Power: 30-55W  
 Emergency Time: 2-3 hours  
 Battery: 12.8V lithium iron phosphate battery/  
 11.1V Li-ion battery  
 Size: L \* W \* T=122\*78\*32mm or 220\*40\*30mm  
 (aluminum shell strip)

#### Product Feature

- Full power emergency lighting, the emergency lighting brightness is equal to the municipal lighting brightness.
- International line, three-color indicator light, detection button.
- No-load protection, constant-current voltage-limited charging, and charge-discharge dual protection board ensure the safety of lithium battery pack.
- Self-inspection function fault alarm function.
- The user can check the discharge condition of the inverter regularly, that is, cut off the mains power supply and use the battery to discharge the lighting until the automatic termination.

#### Note

The battery shall be 11.1V Li-ion battery or 12.8V lithium iron phosphate battery.

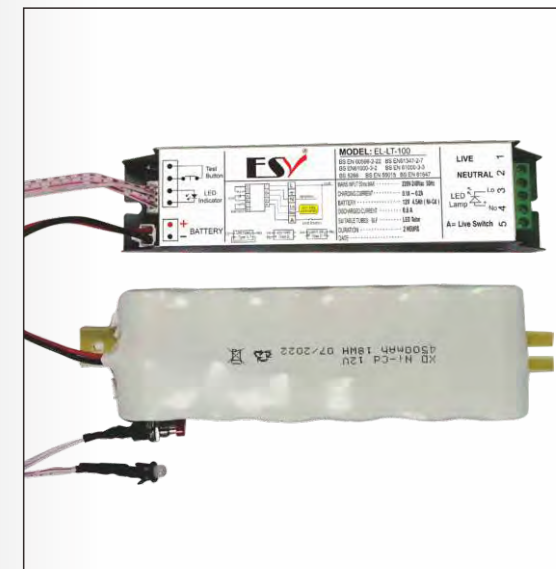
Do not use Ni-Cd or Ni-MH batteries. Digital circuits can cause nickel battery packs to overdischarge.

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.

## LED Emergency Power Supply

### EL-LT-100 100% emergency lighting

Applicable to all LED lamps below 18W, including LED lamps, Battens, Downlights and other emergency lighting.



#### Technical Parameters:

Input: AC 220-240V 50HZ  
 Output: <DC 300V  
 Rate Supply Voltage: AC 220V±10% /50-60HZ  
 Power: 18W  
 Emergency Time: ≥2 hours  
 Emergency Output: 100%  
 Battery: 12V/4.5Ah Ni-Cd battery pack  
 Size: L \* W \* T=168\*38\*28mm

#### Product Feature

- Automatic detection for mains switch on/off status to avoid miss switching
- provide emergency switching to standby DC power source during mains power failure
- Over charged and over discharged battery protections
- Suitable for Maintained or Non-Maintained operation
- Indicator signaling battery operating status
- Easy and reliable batteries and LED connections

#### Note

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.





## Reduced power emergency lighting power supply

### 降功率應急照明電源



When the product is used for emergency lighting, it can reduce the power of emergency lighting, and it can be used as a safety lighting emergency light, saving costs for users as much as possible.

產品在應急照明時，能降低功率應急照明，作為安全照明應急燈使用，盡可能地為用戶節約了成本。

## LED Emergency Power Supply-TUV/CB certified

### EU518T-36-120 Reduced power emergency lighting

Applicable to LED panel lamp, down lamp and other reduced power emergency lighting less than 100W; LED light source with external constant current source driving power supply.



#### Technical Parameters:

Input: AC100V-265V 50/60HZ

Output: DC36V

Power: 3-30W, MAX70W

Emergency Time: 2-3 hours

Battery: 3.7V/7.4V/11.1V ternary lithium battery pack

Size: L \* W \* T=178\*45\*35mm

#### Product Feature

- In emergency lighting, the product can reduce the power of emergency lighting, as far as possible for users to save costs.
- International line, emergency lighting, three-color indicator light, detection button, anti-radiation, high pressure and other safe and beautiful. Slim and ultra-thin, easy to install.
- Emergency power supply has multiple protection functions:
  - A charging protection, after charging saturation, automatically into the trickle charging state, to compensate the battery self-discharge;
  - B Discharge protection, emergency lighting process, when the battery power is exhausted, automatically end the discharge lamp out;
  - C No-load protection, during the emergency lighting, if the lamp is damaged or taken away artificially, the circuit will automatically return to zero and no longer work;
  - D Short circuit protection, wiring short circuit immediately break protection, automatic recovery after troubleshooting.
  - E chip control, digital circuit, self - check, alarm function, in line with the latest international standards.

#### Note

It is used with 3.7V/7.4V/1.1V Li-ion battery pack, and nickel battery is prohibited.

## LED Emergency Power Supply-UL/ETL certified

### EL518T-36-120 Reduced power emergency lighting

Applicable to LED panel lamp, down lamp and other reduced power emergency lighting less than 100W; LED light source with external constant current source driving power supply.



#### Technical Parameters:

Input: AC120-277V 50/60HZ  
 Output: DC36V  
 Power: 5-30W, MAX70W  
 Emergency Time: 2-3 hours  
 Battery: 3.7V/7.4V/11.1V ternary lithium battery pack  
 Size: L \* W \* T=168\*38\*28mm

#### Product Feature

- In emergency lighting, the product can reduce the power of emergency lighting, as far as possible for users to save costs.
- International line, emergency lighting, three-color indicator light, detection button, anti-radiation, high pressure and other safe and beautiful. Slim and ultra-thin, easy to install.
- Emergency power supply has multiple protection functions:
  - A charging protection, after charging saturation, automatically into the trickle charging state, to compensate the battery self-discharge;
  - B Discharge protection, emergency lighting process, when the battery power is exhausted, automatically end the discharge lamp out;
  - C No-load protection, during the emergency lighting, if the lamp is damaged or taken away artificially, the circuit will automatically return to zero and no longer work;
  - D Short circuit protection, wiring short circuit immediately break protection, automatic recovery after troubleshooting.
  - E chip control, digital circuit, self - check, alarm function, in line with the latest international standards.

#### Note

It is used with 3.7V/7.4V/11.1V Li-ion battery pack, and nickel battery is prohibited;

## LED Emergency Power Supply

### EL268C-LED (1W-5W) reduced power emergency lighting

Applicable to 3W-20W LED panel lamp, down lamp and other reduced power emergency lighting; LED lamp external drive power supply.



#### Technical Parameters:

Input: AC100-265V / 50HZ-60HZ  
 Output: DF3V-60V  
 Power: 3W-5W, or customized output power  
 Emergency Time: 2-3 hours  
 Battery: 3.7V Li-ion battery 3.6V nickel battery pack  
 Size: L \* W \* T=150\*40\*30mm

#### Product Feature

- When power is available, it will not affect the lighting of lamps. After power failure, reduce the power to 1-3W or 3-5 W emergency lighting.
- International line, two-color indicator light, test button; Fully enclosed or semi-enclosed enclosure.
- No-load protection, constant-current voltage-limited charging, and charge-discharge dual protection board ensure the safety of lithium battery pack.
- Users can regularly check the discharge condition of the inverter, that is, cut off the mains power supply and use the battery to discharge the lighting until the automatic termination.

#### Note

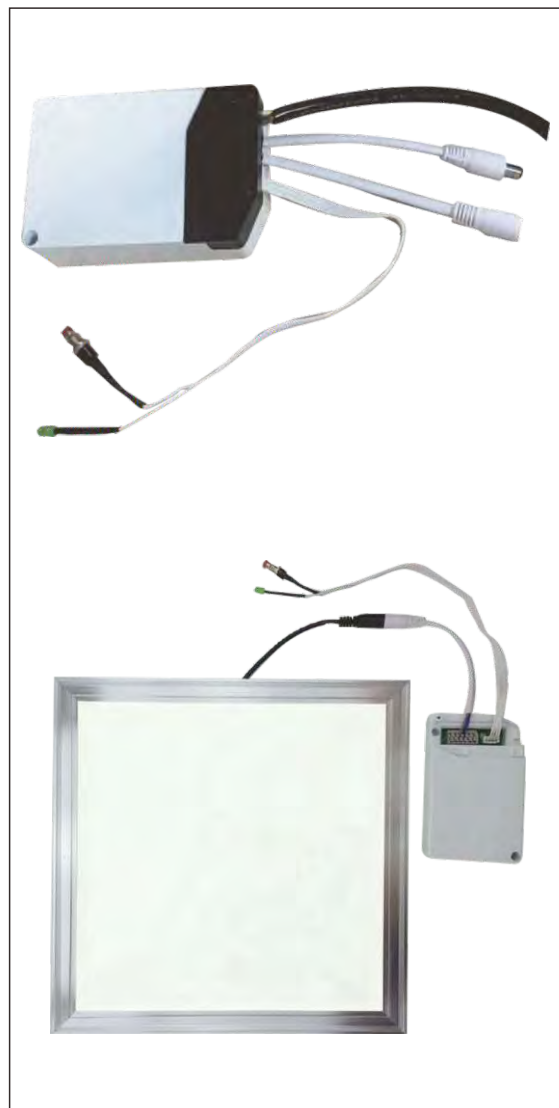
It can be used together with 3.7V Li-ion battery pack, or 3.6V Ni-Cd or Ni-MH battery pack as component emergency.

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.

## LED Emergency Power Supply–Economical&intelligent

### EL268C-F (3W-5W) reduced power emergency lighting

EL268C-F is an emergency low-brightness emergency power supply, economical and practical, applicable to 3W-60W LED panel lights, down lights and other low-power emergency lighting; LED lamp external drive power supply.



#### Technical Parameters:

Input: AC100-265V / 50HZ-60HZ  
 Output: DF3V-120V  
 Power: 3W-5W, or customized output power  
 Emergency Time: 2-3 hours  
 Battery: 3.7V Li-ion battery  
 Size: L \* W \* T=120\*70\*30mm

#### Product Feature

- The lighting of lamps will not be affected when there is power, and the power will be reduced to 3-5 W for emergency lighting after power failure.
- International line, charging indicator, test button, fully enclosed enclosure.
- No-load protection, constant-current voltage-limited charging, and charge-discharge dual protection board to ensure the safety of lithium battery pack.
- Users can regularly check the discharge condition of the inverter, that is, cut off the mains power supply, and use the battery to discharge the lighting until the automatic termination.

#### Note

It is used with 3.7V Li-ion battery pack.

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.

## LED Emergency Power Supply–Automatic matching lamps

### EL168T (3W-10W) reduced power emergency lighting

EL168T emergency power supply is an economical and practical type, suitable for 10W-80W LED panel lights, down lights, and other reduced power emergency lighting; External drive power supply for LED lamps.



#### Technical Parameters:

Input: AC100-265V / 50HZ-60HZ  
 Output: DF18V-120V  
 Power: 3W-10W, or customized output power  
 Emergency Time: 2-3 hours  
 Battery: 7.4V Ni-Cd or Ni-MH battery or 7.2V Ni-Cd or Ni-MH battery pack  
 Size: L \* W \* T=137\*34\*26mm

#### Product Feature

- When there is power, it does not affect the lighting of lamps. After power failure, reduce the power to 3-10W for emergency lighting;
- International line, three color indicator light, test button;
- No-load protection, constant current limited voltage charging, and dual protection panels for charging and discharging ensure the safety of lithium battery packs;
- The user can regularly check the discharge condition of the inverter, that is, cut off the mains power supply and use the battery to discharge the lighting until it automatically terminates.

#### Note

It can be used with a 7.4V Li-ion battery pack, or a 7.2V Ni-Cd or Ni-MH battery pack.

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover arbitrarily.



## LED Emergency Power Supply-Automatic matching lamps

### EL168T-36 (3W-5W) reduced power emergency lighting

EL168T-36 LED emergency drive power supply, economical and practical, suitable for 10W-80W LED panel lights, down lights, and other reduced power emergency lighting; External drive power supply for LED lamps.



#### Technical Parameters:

Input: AC100-265V / 50HZ-60HZ  
 Output: DF18V-120V  
 Power: 3W-5W, or customized output power  
 Emergency Time: 2-3 hours  
 Battery: 3.7V Li-ion battery or 3.6V Ni-Cd or Ni-MH battery pack  
 Size: L \* W \* T=137\*34\*26mm

#### Product Feature

- When there is power, it does not affect the lighting of lamps. After power failure, the power is reduced to 3-5 W for emergency lighting;
- International line, three color indicator light, test button;
- No-load protection, constant current limited voltage charging, and dual protection panels for charging and discharging ensure the safety of using lithium battery packs;
- Users can regularly check the discharge condition of the inverter, that is, cut off the mains power supply and use the battery to discharge the lighting until it automatically terminates.

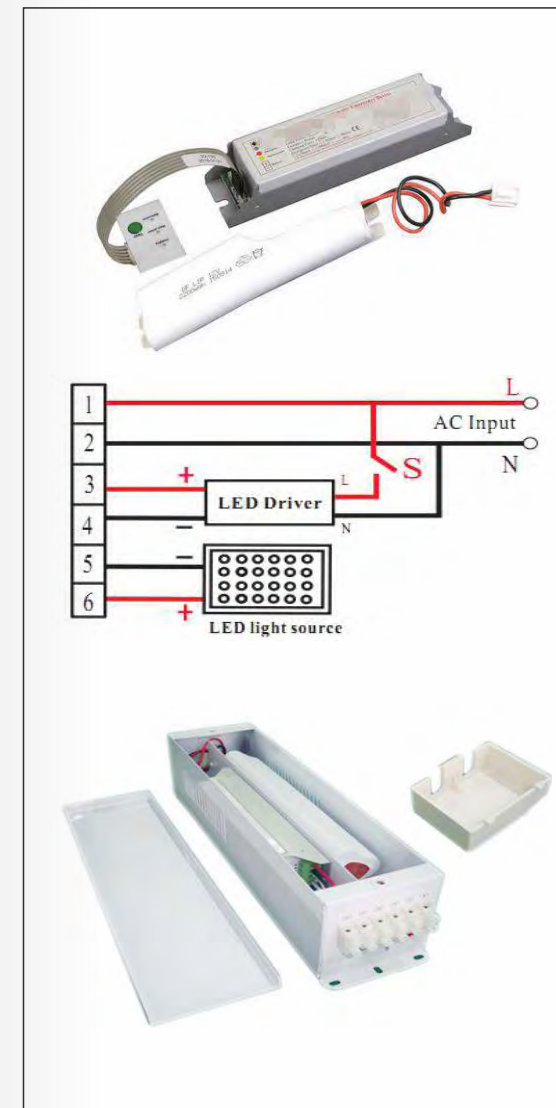
#### Note

It can be used with 3.7V Li-ion battery battery pack, or 3.6V Ni-Cd or Ni-MH battery pack.  
 Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.

## LED Emergency Power Supply-Automatic matching lamps

### EL168-30H (10W-25W) reduced power emergency lighting

Intelligent EL168-30H emergency power supply, automatically matching LED lamps. Suitable for 20W-200W LED panel lights, downlights, and other reduced power emergency lighting; External drive power supply for LED lamps.



#### Technical Parameters:

Input: AC100-265V / 50HZ-60HZ  
 Output: DF18V-120V  
 Power: 10W-25W, or customized output power  
 Emergency Time: 2-3 hours  
 Battery: 11.1V Li-ion battery or 12V Ni-Cd or Ni-MH battery pack  
 Size: L \* W \* T=168\*38\*28mm

#### Product Feature

- When there is power, it does not affect the lighting of lamps. After power failure, the power is reduced to 10-25W for emergency lighting;
- International line, three color indicator light, test button;
- No-load protection, constant current limited voltage charging, and dual protection panels for charging and discharging ensure the safety of using lithium battery packs;
- Users can regularly check the discharge condition of the inverter, that is, cut off the mains power supply and use the battery to discharge the lighting until it automatically terminates.

#### Note

It can be used with a 11.1V Li-ion battery pack, or a 12V Ni-Cd or Ni-MH battery pack can be used.  
 Connect the circuit in strict accordance with the wiring diagram, and do not open the cover arbitrarily.

## LED Emergency Power Supply-SAA certified

### EL518S (SAA certified) reduced power emergency lighting

Suitable for LED panel lights, ceiling lights, down lights, and other reduced power emergency lighting less than 30W; LED light source with external constant current source driving power supply.



#### Technical Parameters:

Input: AC100-265V / 50HZ-60HZ  
 Output: DC36V  
 Power: 3W-5W, the lamp is less than 40W  
 Emergency Time: 2-3 hours  
 Battery: 3.7V lithium battery pack  
 Size: L \* W \* T=150\*40\*30mm

#### Product Feature

- This product can reduce the power of emergency lighting during emergency lighting. The brightness of the time source for emergency lighting is 3-5 W, with constant current output;
- International lines, reduced power emergency lighting, three color indicator lights, detection buttons;
- No-load protection, constant current limited voltage charging, and dual protection panels for charging and discharging ensure the safety of lithium battery packs;
- Self inspection function fault alarm function;
- The user can regularly check the discharge condition of the inverter, that is, cut off the mains power supply and use the battery to discharge the lighting until it automatically terminates.

#### Note

It is prohibited to use nickel batteries in conjunction with 3.7V lithium battery packs.

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.

## Dimmable LED Emergency Drive Power Supply

### EL518T-F reduced power emergency lighting-with toggle switch

Suitable for LED panel lights, ceiling lights, downlights, and other reduced power emergency lighting less than 60W.



#### Technical Parameters:

Input: AC100-265V / 50HZ-60HZ  
 Output: DC3V-36V  
 Power: 4W4 hours or 3W3 hours, (lamps less than 50W), adjustable  
 Emergency Time: 4W4 hours or 3W3 hours  
 Battery: 3.7V lithium battery pack  
 Size: L \* W \* T=120\*70\*30mm

#### Product Feature

- This product can reduce the power of emergency lighting during emergency lighting. The brightness of the light source during emergency lighting is 4W4 hours or 3W3 hours. The output power during emergency lighting can be adjusted by turning the switch.
- International line, reduced power emergency lighting, three color indicator light, detection button.
- No-load protection, constant current limited voltage charging, and dual protection panels for charging and discharging ensure the safety of lithium battery packs;
- Self inspection function fault alarm function;
- The user can regularly check the discharge condition of the inverter, that is, cut off the mains power supply and use the battery to discharge the lighting until it automatically terminates.

#### Note

LED light source with external constant current source driving power supply. It is prohibited to use nickel batteries in conjunction with power type 3.7V lithium battery packs.

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover arbitrarily.

## LED Emergency Power Supply-SAA certified

### EL268H Special for 12-36V low-voltage lamps

Suitable for emergency lighting such as 5W-18W AC/DC 12-36V low-voltage LED downlights LED strips LED tubes.



#### Technical Parameters:

Input: AC/DC 12V-36V  
 Output: AC/DC 12V-36V  
 Power: 3W-18W, the lamp is less than 20W  
 Emergency Time: 2-3 hours  
 Battery: 7.4V lithium battery pack  
 Size: L \* W \* T=37\*34\*26mm-below 10W  
 168\*38\*28mm-18W

#### Product Feature

- This product can have the drive power function under low voltage input, and automatically start the emergency lighting function after a power failure;
- Constant current output, dual purpose for one lamp;
- Special for AD12-36V low-voltage lamps, full power or reduced power emergency lighting, three color indicator light, detection button;
- No-load protection, constant current limited voltage charging, and dual protection panels for charging and discharging ensure the safety of lithium battery packs;
- Self inspection function fault alarm function;
- The user can regularly check the discharge condition of the inverter, that is, cut off the mains power supply and use the battery to discharge the lighting until it automatically terminates.

#### Note

It is prohibited to use nickel batteries in conjunction with 7.4V Li-ion battery packs.  
 Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.

## LED Emergency Power Supply

### EL168-30H-128 supporting long life battery

Suitable for LED panel lights, mining lights, tunnel lights, high ceiling lights, and other reduced power emergency lighting less than 100W; LED light source with external drive power supply.



#### Technical Parameters:

Input: AC100-265V / 50HZ-60HZ  
 Output: DC18V-120V  
 Power: 8-25W (lamps less than 100W)  
 Emergency Time: 2-3hours  
 Battery: Lithium iron phosphate batteries (lifepo4 batteries)  
 Size: L \* W \* T=168\*38\*28mm

#### Product Feature

- This product can reduce the power of emergency lighting during emergency lighting, and the brightness of the time source for emergency lighting is 8-25W;
- International lines, reduced power emergency lighting, three color indicator lights, and detection buttons;
- No-load protection, constant current limited voltage charging, and dual protection panels for charging and discharging ensure the safety of using lithium battery packs;
- Users can regularly check the discharge condition of the inverter, that is, cut off the mains power supply and use the battery to discharge the lighting until it automatically terminates.

#### Note

Use lifepo4 batteries in conjunction with lithium iron phosphate battery packs.  
 Connect the circuit in strict accordance with the wiring diagram, and do not open the cover arbitrarily.



## Power Reductive Emergency Power Pack

### EL-LT-10

Suitable for emergency lighting such as T5/T8 LED tubes Batters, Downlights and other emergency lighting.



#### Technical Parameters:

Input: AC 220-240V 50HZ  
 Output: <DC 300V  
 Rate Supply Voltage: AC 220V±10% /50-60HZ  
 Power: 18W  
 Emergency Time: ≥2 hours  
 Emergency Output: ≥10%  
 Battery: 7.2V/1.1Ah Ni-Cd battery pack  
 Size: L \* W \* T=168\*38\*28mm

#### Product Feature

- Automatic detection for mains switch on/off status to avoid miss switching
- Provide emergency switching to standby DC power
- Source during mains power failure
- Over charged and over discharged battery protections
- Suitable for Maintained or Non-Maintained operation
- Indicator signaling battery operating status
- Easy and reliable batteries and LED connections
- Easy Wiring connection to luminaires, Batters, Down lights etc.

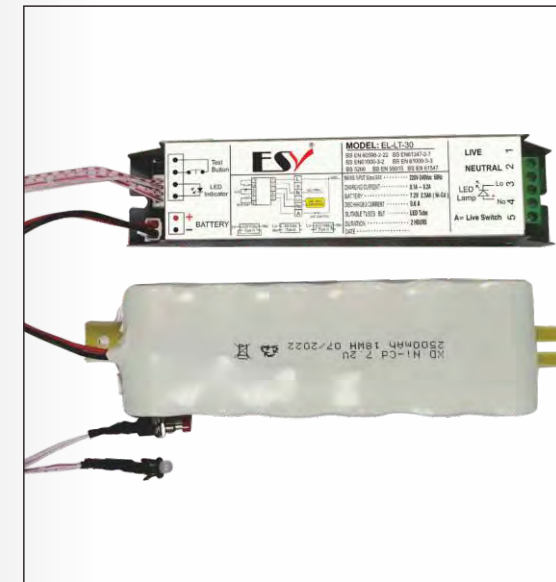
#### Note

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.

## Power Reductive Emergency Power Pack

### EL-LT-30

Suitable for emergency lighting such as T5/T8 LED tubes Batters, Downlights and other emergency lighting.



#### Technical Parameters:

Input: AC 220-240V 50HZ  
 Output: <DC 300V  
 Rate Supply Voltage: AC 220V±10% /50-60HZ  
 Power: 18W  
 Emergency Time: ≥2 hours  
 Emergency Output: ≥30%  
 Battery: 7.2V/2.5Ah Ni-Cd battery pack  
 Size: L \* W \* T=168\*38\*28mm

#### Product Feature

- Automatic detection for mains switch on/off status to avoid miss switching
- Provide emergency switching to standby DC power
- Source during mains power failure
- Over charged and over discharged battery protections
- Suitable for Maintained or Non-Maintained operation
- Indicator signaling battery operating status
- Easy and reliable batteries and LED connections
- Easy Wiring connection to luminaires, Batters, Down lights etc.

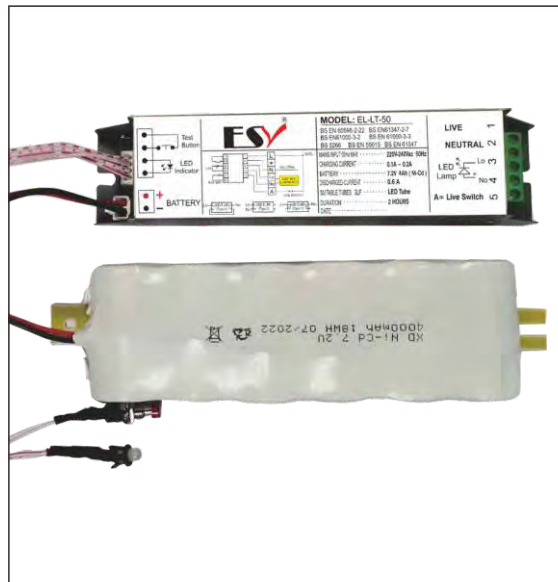
#### Note

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover arbitrarily.

## Power Reductive Emergency Power Pack

### EL-LT-50

Suitable for emergency lighting such as T5/T8 LED tubes Battens, Downlights and other emergency lighting.



#### Technical Parameters:

Input: AC 220-240V 50HZ

Output: <DC 300V

Rate Supply Voltage: AC 220V±10% /50-60HZ

Power: 18W

Emergency Time: ≥2 hours

Emergency Output: ≥50%

Battery: 7.2V/4Ah Ni-Cd battery pack

Size: L \* W \* T=168\*38\*28mm

#### Product Feature

- Automatic detection for mains switch on/off status to avoid miss switching
- Provide emergency switching to standby DC power
- Source during mains power failure
- Over charged and over discharged battery protections
- Suitable for Maintained or Non-Maintained operation
- Indicator signaling battery operating status
- Easy and reliable batteries and LED connections
- Easy Wiring connection to luminaires, Battens, Down lights etc.

#### Note

Connect the circuit in strict accordance with the wiring diagram, and do not open the cover at will.



## Fire indicator display

消防指示燈展示



