

Please read the instructions carefully before using.

## I . Waterproof,Rainproof and indoor switching Power Supply instructions.

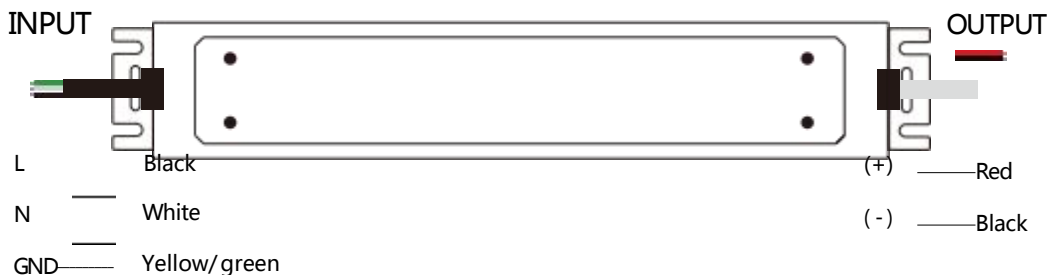
### 1. Installation and Using.

- (1) The grid voltage must be within the specified operating voltage range of the power supply , for example, input voltage is 170 ~ 250V,the power supply cannot connect 280V power grid.
- (2) Do not use under abnormal loads ; Do not overload or very light load, power and load must be reasonable match
- (3) To creating a good cooling installation and environment for power supply. :
  - a. Do not install the power supply in a high temperature environment
  - b. As far as possible through the heat transfer in three ways
    - ①Exposed to the flow air.
    - ②Cooling space as large as possible.
    - ③Install it in a large area of the metal plate, and make good contact, cooling through the metal plate.

### 2. Installation method steps:

- (1) In order to facilitate heat dissipation, please install the power supply to the large metal plate directly;
- (2) Wiring must be firmly, remember that input and output lines do not reverse; Output "+" Connect LED "Positive" ; Output "-" Connect LED "Negative"
- (3) Please check the line voltage is consistent with power supply's working voltage with a multimeter before switch on.

### 3. Wiring diagram:



Note:

The black outer jacket is the input wire,

The white outer jacket is the output wire,

Input live wire: BLACK

Input neutral wire: WHITE

Input earth wire: YELLOW/GREEN

OUTPUT (+): RED

OUTPUT (-): BLACK

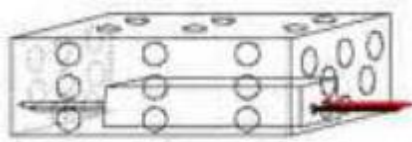
#### 4. Installation examples :

(In the drawing, the unreasonable installation pattern has "x" mark)

##### (1). The installation of poor cooling and the correct installation:

**Incorrect installation**

**Correct installation**

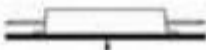


Power supply can not be installed in a closed box

Please make more holes on the box when power supplies installed in the closed box.



Wooden article (plastic article)



Metal



Wooden article (plastic article)

Metal



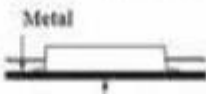
Metal Good ventilation

When installed indoors, heat radiation surfaces should face ventilation place



Double-sided tape, glass glue

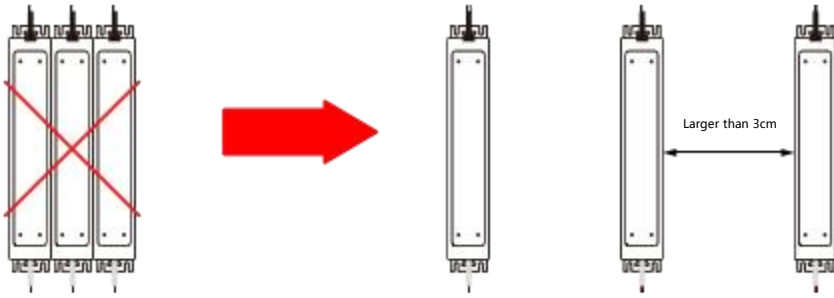
Metal



Double-sided tape, glass glue

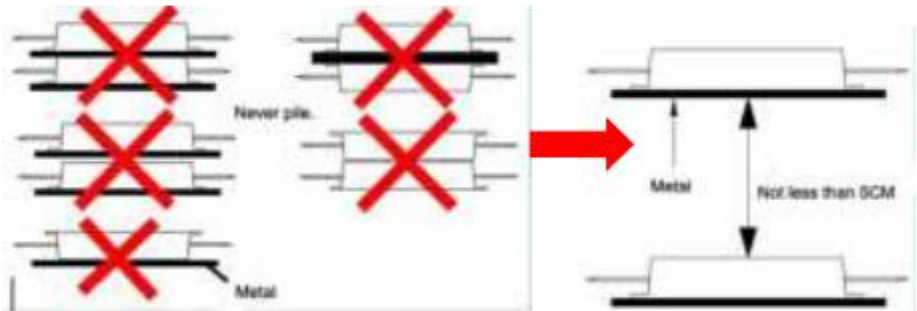
Double-sided glass glue is a poor conductor of heat, the installation should first install the heat-conducting metal plate and then affixed to other objects.

**(2) LED switching power supply installation spacing**

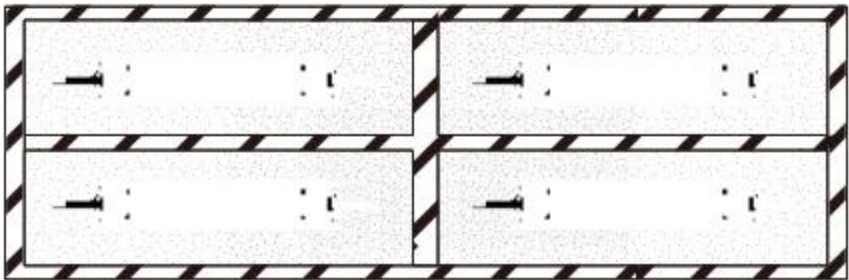


Not good for heat emission

When installed in parallel please keep 3cm distance between power supplies .



**(3) The installation of Multiple power supplies in a metal box.**



Epoxy resin

LED power supply

Metal heat conduction plate

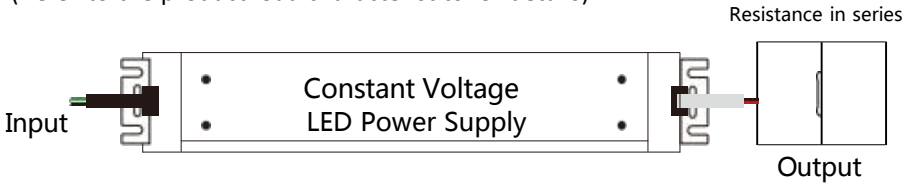
Metal box

When a number of power supplies installed in one sealed box, please put thermal metal separator plate in the middle of them and put epoxy resin encapsulation in order to facilitate conduction heat.

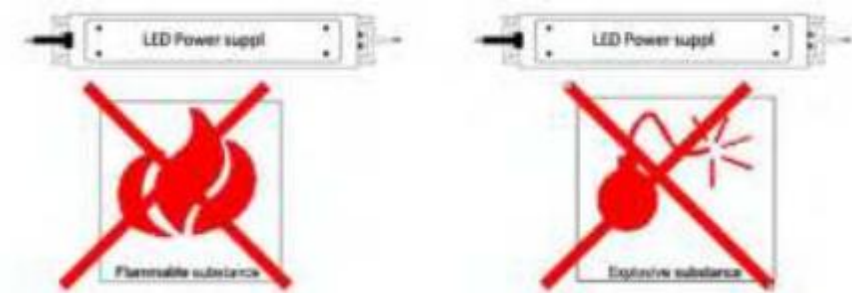
#### (4) Non-normal ultra-light load application characteristics

When the load of the power supply is too light, the load should be matched to the LED power supply: The constant voltage power supply must be connected with a resistor in parallel with the output. The constant current power supply must be connected with a resistor in the output to increase the load.

(Refer to the product load characteristics for details)



#### (5) LED power supply can not be installed near the occasion of flammable and explosive



## II. Product use environment and storage conditions

1. Outdoor products can be used in: temperature  $-25\text{ }^{\circ}\text{C} \sim +50\text{ }^{\circ}\text{C}$ ; relative humidity of 100%
2. Indoor products can be used in:  $-10\text{ }^{\circ}\text{C} \sim +50\text{ }^{\circ}\text{C}$ ; relative humidity of not more than 90%
3. Products can be stored in: temperature  $-10\text{ }^{\circ}\text{C} \sim +60\text{ }^{\circ}\text{C}$ ; relative humidity less than 85%