

## Surge Protective Devices (SPD)

### SC-10KV-277

#### Description

SC-10KV-277 is a kind of power supply surge protector suitable for 220V power grid. Used in street lighting, landscape lighting, etc. The shell of the product is made of flame-retardant material, and the product is made of potting glue. It has the characteristics of fire prevention, waterproof and dustproof. Protection grade up to IP67. Installation and application is very convenient, with L, N and PE connection line.



#### Features

- ◆ The product has full mold protection function. The product has a maximum protection can withstand the impact of 10kV surge voltage.
- ◆ The size of the product is small, 35×26×14mm (excluding the connecting wire).
- ◆ It is a Class III power SPD.
- ◆ Parallel connection mode is adopted.
- ◆ Adopt our company's new structure technology manufacturing, break through the conventional structure technology. This process can improve the impact resistance of SPD.
- ◆ Executive standard: IEC/EN:61643-11.
- ◆ Operating Temperature Range: -40°C to +85°C .

#### Applications

- ◆ Outdoor and Commercial LED Lighting.
- ◆ Roadway lighting.
- ◆ Traffic lighting.
- ◆ Digital signage.
- ◆ Security power supply.
- ◆ Wash wall lighting.
- ◆ Parking garage lighting.
- ◆ Flood lighting.
- ◆ Tunnel lighting.

#### Electrical Characteristics

| Symbol                               | Parameter                                   | Value | Unit            |
|--------------------------------------|---|-------|-----------------|
| <b>Electrical Parameters</b>         | Rated Operating Voltage                     | 220   | VAC             |
|                                      | Max. Continuous Voltage                     | 277   | VAC             |
|                                      | Response Time                               | 65    | ns              |
|                                      | Cross-section Area                          | 1     | mm <sup>2</sup> |
| <b>Surge Parameters</b>              | Nominal Discharge Voltage (1.2/50μs) (Vn)   | 10    | kV              |
|                                      | Maximum Discharge Voltage (1.2/50μs) (Vmax) | 20    | kV              |
| <b>Voltage Protection Level (Up)</b> | L-N/PE                                      | 1.2   | kV              |
|                                      | N-PE  | 1.0   | kV              |

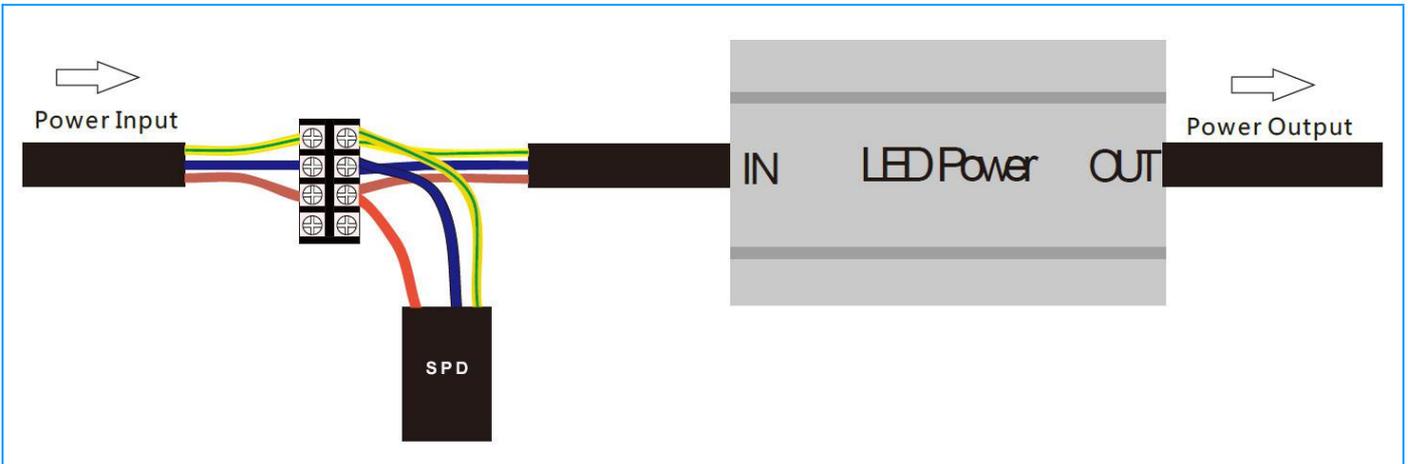
Notes:

1. Nominal discharge voltage surge times: ±15T;
2. Maximum discharge voltage surge times: 1T.

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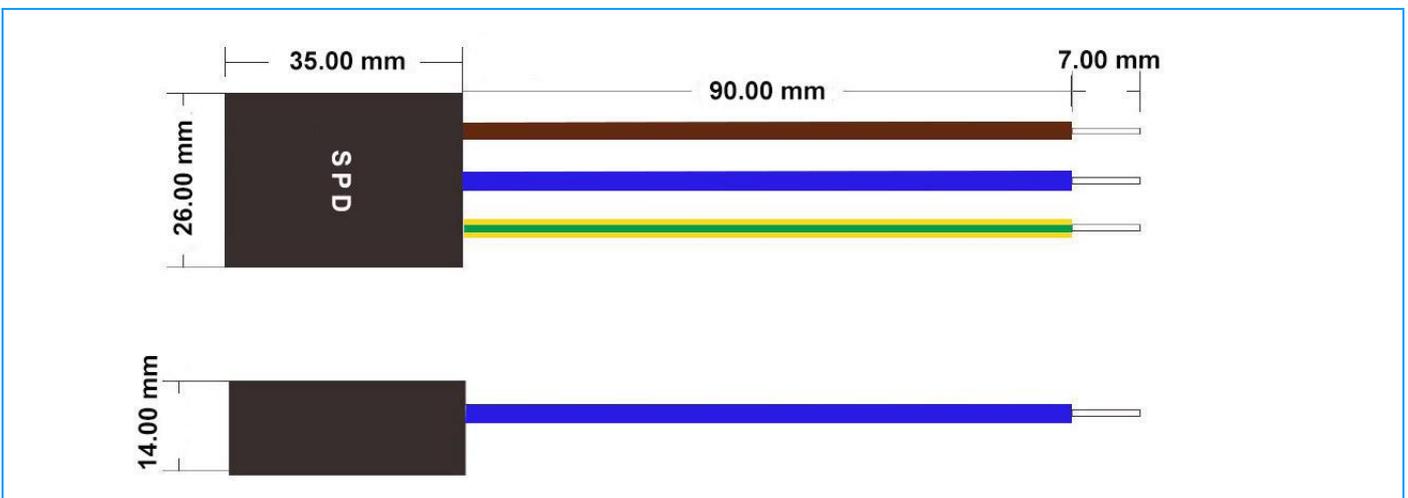
### Application/ Inatallation Schematic



**Notes:**

1. The brown wire is L wire, the blue wire is N wire, and the yellow-green wire is the ground wire.
2. After the wire is installed, the product can be tied to the power supply with cable ties. Due to the small volume and weight of the product, it can also be placed freely as shown in Figure 2 of the installation example.

### Typical Dimensions



### Packaging Information

| Part Number | Quantity      |
|-------------|---------------|
| SC-10KV-277 | 270 PCS / Box |

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