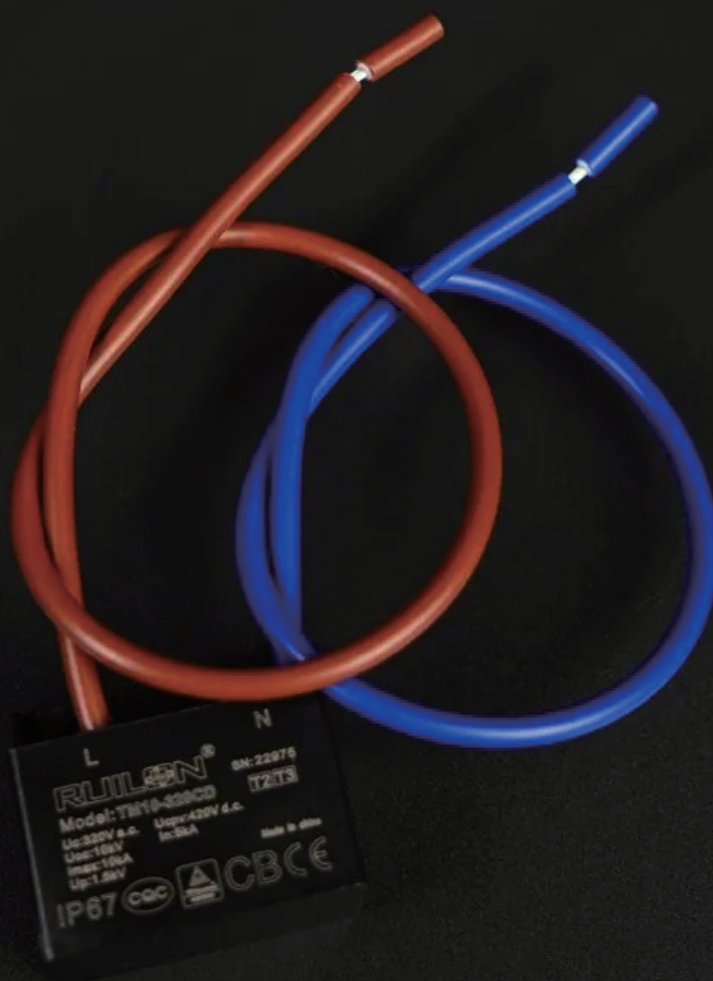


Specification

AS-FL-0001

Low-voltage Surge Protective Device



【Scope】

TM10-320CD low-voltage surge protector is applicable for the surge protection of lighting power supplies, such as outdoor street lamps, landscape lights, traffic signals and so on. It is used to suppress and discharge the overcurrent and overvoltage generated by induction lightning or low-voltage distribution systems, and protect electrical equipment from damage.

This product is suitable for 110V-277V AC power supply system, using differential mode protection, the use of soft wire and external circuit parallel connection.



Surge protection level:

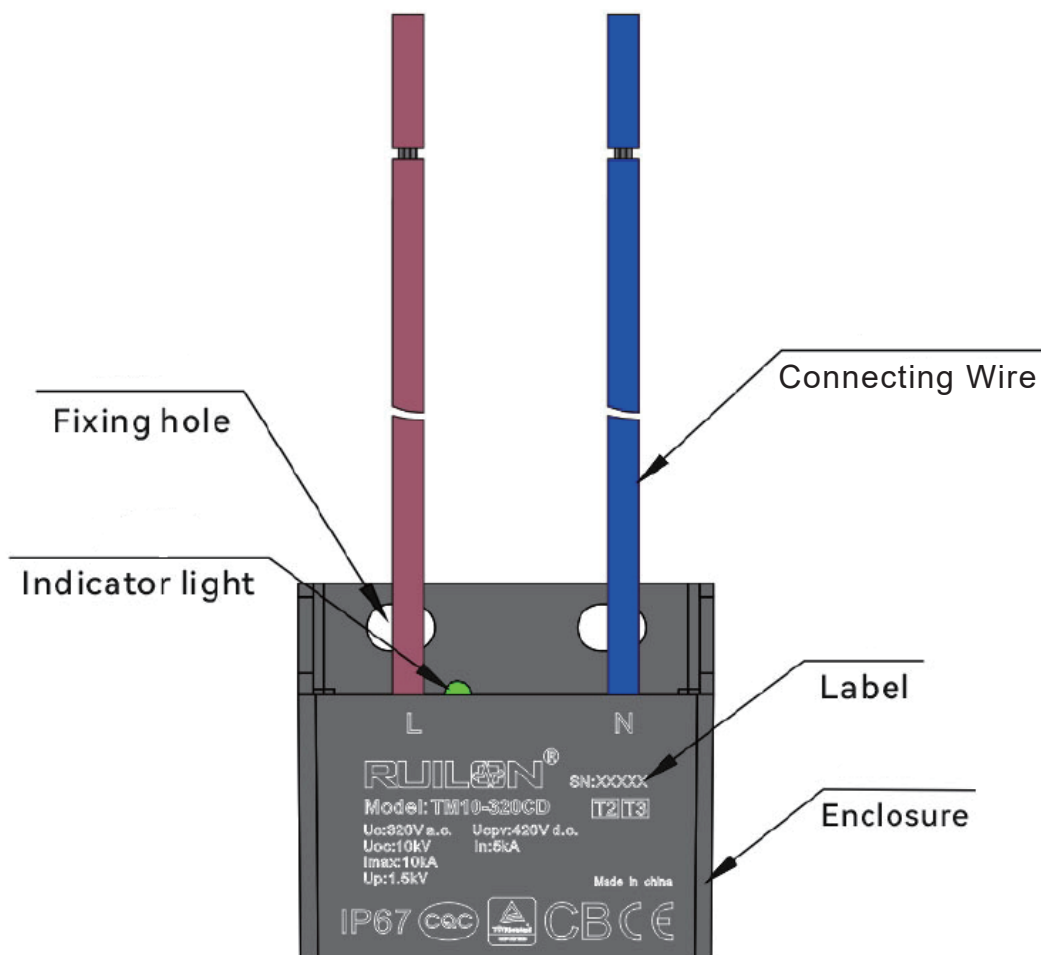
IEC/EN 61643-11 Nominal discharge current 5 kA, Maximum discharge current 10 kA, Impulse open circuit voltage 10 kV.

GB/T18802.11-2020 Nominal discharge current 5 kA, Maximum discharge current 10 kA, Impulse open circuit voltage 10 kV.

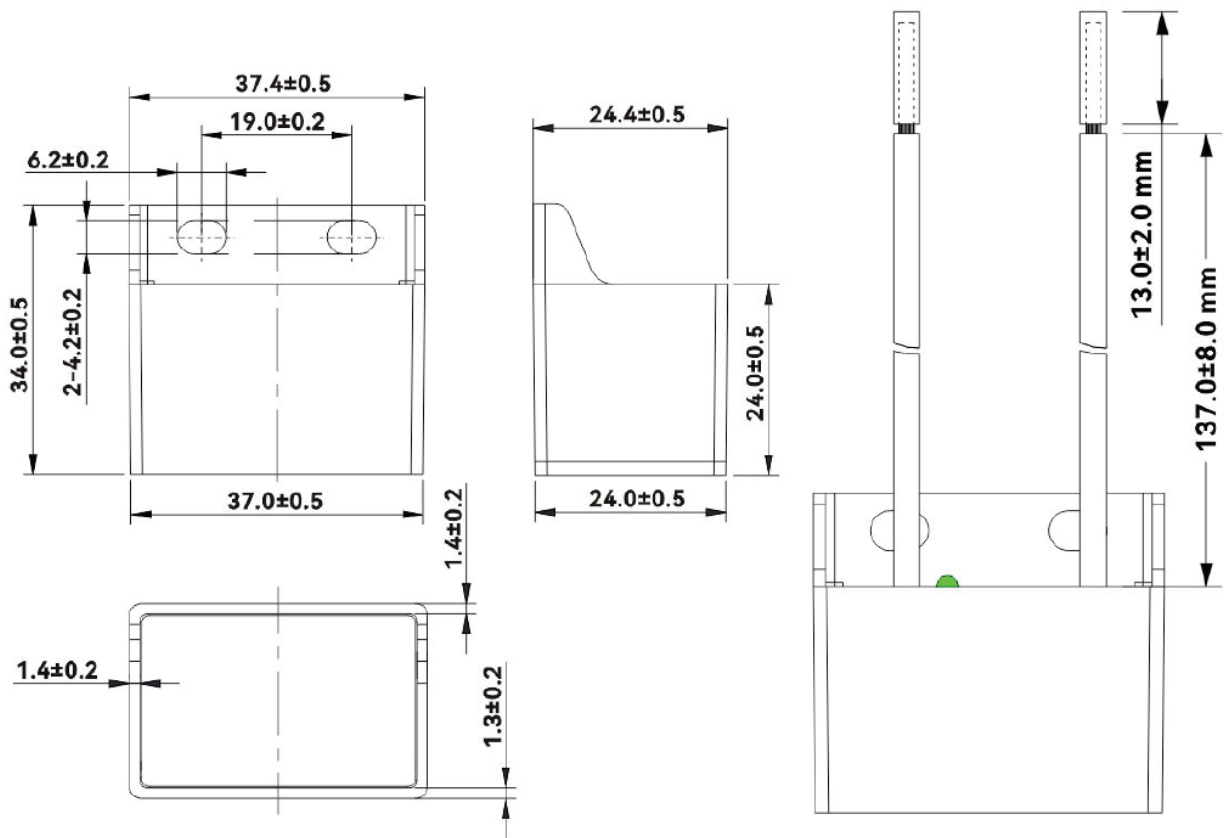
【Structure and Dimensions】

Structure

Product Structure: The design type of this product is compound, with working status indication, black shell, and black epoxy potting glue. It uses power cord and external circuit parallel connection.



[Product Dimensions]

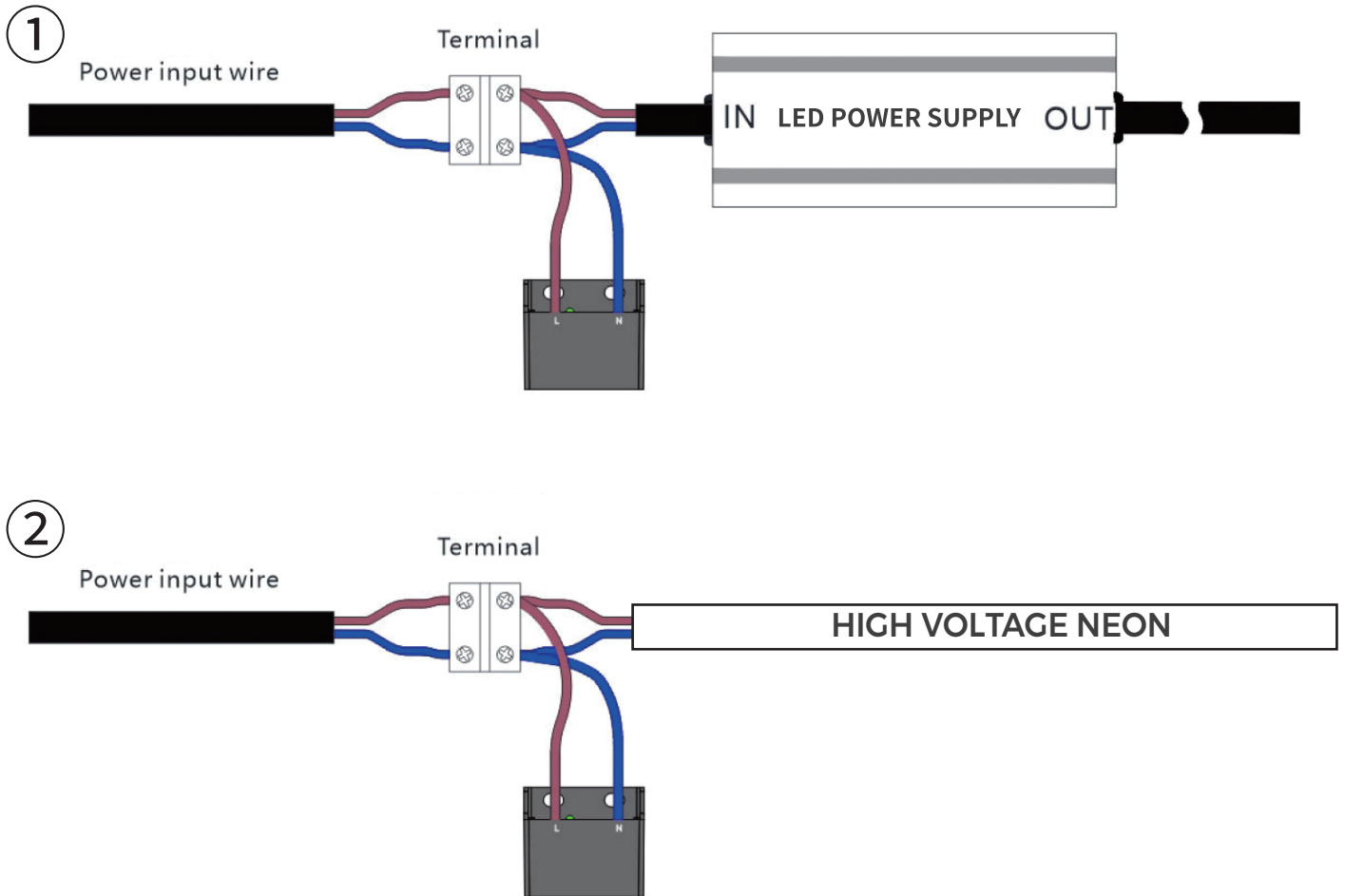


[Product Dimensions]

Technical Feature	Technical Parameters	Reference Standards
Operational Temperature Range	(-40 -85)°C	GB/T 10193 IEC 61051
Storage Temperature and Humidity Range(24 hours)	(-40 -100)°C ≤95%RH	IEC 60068-2-1 IEC 60068-2-2
Max. Continuous Operating Voltage (U _c)	320 V a.c.	IEC 61643-11
Nominal Discharge Current(I _n) (8/20 μs)	5kA	IEC 61643-11
Maximum Discharge Current(I _{max})(8/20 μs)	10kA	IEC 61643-11
Open Circuit Voltage (U _{oc})	10kV	IEC 61643-11
Voltage Protection Level (U _p)	1.5kV	IEC 61643-11
Status Indication	Normal:green Fault: lights go out	/
Degrees of Protection Provided by Enclosure	IP67	IEC 60529
Altitude	-500m to 4000 m	/

【Mounting Method】

It employs the parallel connection of the protected device and power cord.



【Safety Precautions】

1. Read and understand all instructions before installation.
2. The voltage continuously applied to the product should not exceed its maximum continuous working voltage U_c .
3. Avoiding to destroy enclosure, solvent such as acetone is forbidden for cleaning products when assembly.
4. Avoiding making mechanical damage on products, improper operation such as knocking when assembly is not allowed.
5. If you do not obey the instructions, the electric system or associated equipment may be breakdown.
6. Installation location: Indoors/Outdoors.
7. Fluctuation range of system voltage shall be less than 10%.
8. The SPD(Surge Protective Device) should be replaced immediately when it has the problem of aging failure which would cause the thermal protection device disconnect and the work indicator lights turn off.