



## Description

SOL-LEDSP-20B series Surge Protective Device is specially designed to be used in outdoor LED lighting system fixtures for transient overvoltage protection. It is mainly constructed by themally protectedvaristors and gas discharge tube devices, It can be installed in LED lamp or lamp post.

## Features

- ◆ Suitable for use in luminaire with Class I or Class II installations
- ◆ Protection mode : L-N、L-PE、N-PE
- ◆ Built-in thermal detachment function,higher security
- ◆ Parallel wiring, easy maintenance
- ◆ Excellent impact resistance,low voltage limit
- ◆ Built-in LED indication,saves maintenance time by identifying replacement need
- ◆ IP67-Dust-tight and water resistant

## Applications

- ◆ digital signage
- ◆ flood lighting
- ◆ street lighting
- ◆ roadway lighting
- ◆ parking garage lighting
- ◆ traffic lighting
- ◆ tunnel lighting
- ◆ wall wash lighting
- ◆ AC-LED lighting

## Electrical specifications

Part Number	SOL-LEDSP-20B(3L)	SOL-LEDSP-20B(5L)
Operating Voltage/Un(Vac)	100-277V	100-277V
Maximum Continuous Operating Voltage/MCOV/Uc(VAC)1	320V	320V
Rated load current/IL(A)	-	5A
Nominal Discharge Current/In(kA)2	10kA	10kA
Maximum Discharge Current/Imax(kA)3	20kA	20kA
Open Voltage/Uoc(kV)	20kV	20kV
Voltage Protective Level/Up(V)4	≤1.5kV(L-N,L-G/PE,N-G/PE)	≤1.5kV(L-N,L-G/PE,N-G/PE)
Wire for terminal	Hose cable(1.5mm <sup>2</sup> )	Hose cable(1.5mm <sup>2</sup> )
Connection mode	Parallel connection	Parallel connection
Power System	TN	TN
Protection Degree	IP67	IP67
Ambient Temperature	-40℃~+70℃	-40℃~+70℃
IEC 61643-II Test Classification	Test Class II and III	Test Class II and III
IEC 61643-II Type Classification	Type 2 and 3	Type 2 and 3

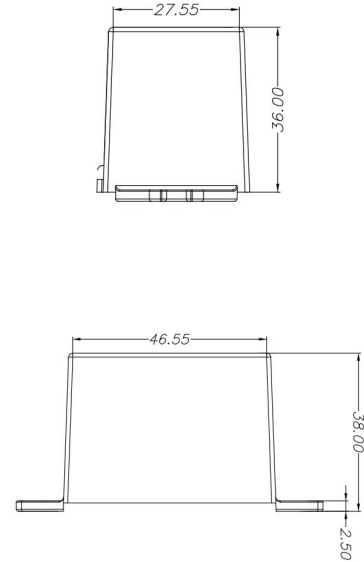
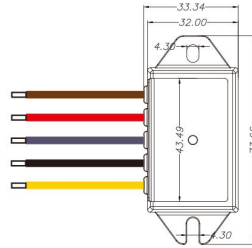
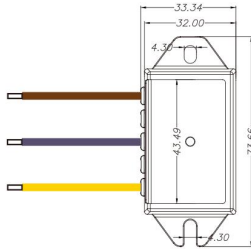
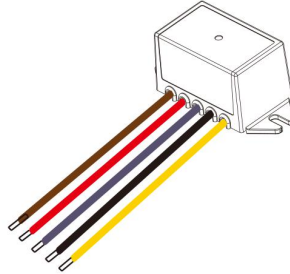
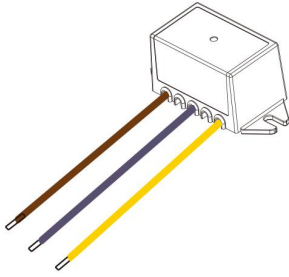
1. MCOV/Uc(VAC):The Maximum Continuous Operating Voltage can be continuously applied to the SPD.

2. Nominal Discharge Current(In)(kA):The nominal discharge current is a measure of the SPDs endurance capability 15 impulses of discharge current uses the 8/20us current waveform.

3. Maximum Discharge Current(Imax)(kA):The maximum discharge current is a measure of the SPDs maximum capability single impulse of discharge current uses the 8/20us current waveform.All Devices pass maximum discharge current with possible,safe opening of thermal disconnect.

4. Voltage Protective Level/Up: The highest value of residual voltage measurements during the application of impulses of 8/20us nominal discharge(In);arounding voltage value of maximum measurement.

## Dimensions

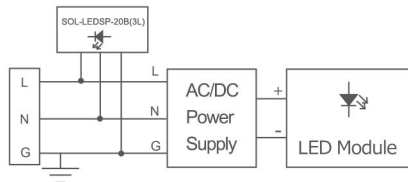


Units:(mm)

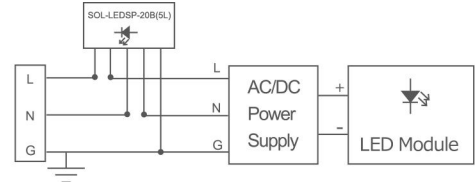
**Notes:**

1. Brown/Red:Line;Blue/Black:Neutral;Yellow/Green:Ground.
2. Wire Gauge:1.5mm<sup>2</sup> wire line in/out;Wire Length:150mm or customized.
2. Use two M4 screws to fix the SPD.

## Application/Installation



Parallel Connection



Series Connection

**Notes:**

1. LED light on:SPD is good
2. LED light off:SPD needs replacement