



## Description

SOL-LEDSP-20S 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 thermally protected varistors 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-20S
Operating Voltage/ $U_n$ (Vac)	100-277V
Maximum Continuous Operating Voltage/MCOV/ $U_c$ (VAC) <sup>1</sup>	320V
Rated load current/ $I_L$ (A)	5A
Nominal Discharge Current/ $I_n$ (kA) <sup>2</sup>	10kA
Maximum Discharge Current/ $I_{max}$ (kA) <sup>3</sup>	20kA
Open Voltage/ $U_{oc}$ (kV)	20kV
Voltage Protective Level/ $U_p$ (V) <sup>4</sup>	≤1.5kV(L-N, L-G/PE, N-G/PE)
Wire for terminal	Hose cable(0.75-2.5mm <sup>2</sup> )
Connection mode	Series connection
Power System	TN
Protection Degree	IP67
Ambient Temperature	-40℃~+850℃
IEC 61643-II Test Classification	Test Class II and III
IEC 61643-II Type Classification	Type 2 and 3

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

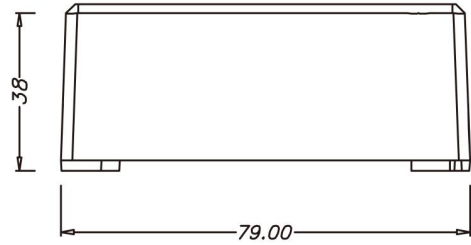
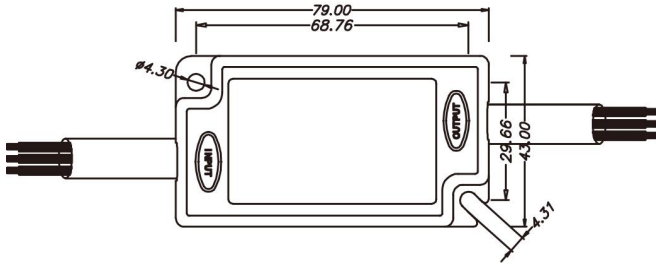
2. Nominal Discharge Current( $I_n$ )(kA): The nominal discharge current is a measure of the SPDs endurance capability 15 impulses of discharge current uses the 8/20us current waveform.

3. Maximum Discharge Current( $I_{max}$ )(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/ $U_p$ : The highest value of residual voltage measurements during the application of impulses of 8/20us nominal discharge( $I_n$ ); arounding voltage value of maximum measurement.

## Dimensions

Units: (mm)



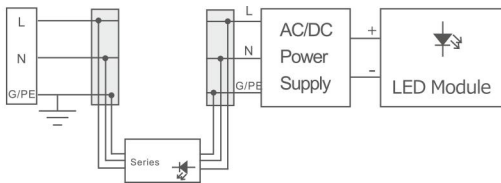
## Wire Specification

Input Length	Output Length	Diameter	Installation Class	Color
300mm ± 20mm	200mm ± 20mm	1.0mm <sup>2</sup>	I	L-Brown Blue G/PE-Green With Yellow stripe
300mm ± 20mm	200mm ± 20mm	1.0mm <sup>2</sup>	II	L-Brown Blue
300mm ± 20mm	200mm ± 20mm	14AWG	-	L-Black N-White G-Green

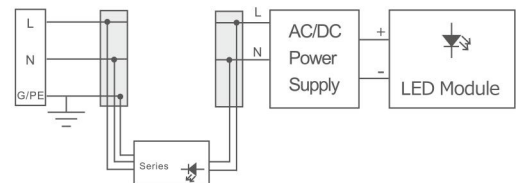
### Notes:

1. Input terminal AC network, Output terminal drive AC input, Incorrect installation can greatly damage the performance of the SPD.
2. Wire Line length can be customized
3. Use two M4 screws to fix the SPD.

## Application/Installation



for Class I installations, earthed



for Class II installations, unearthed

### Notes:

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