

Product Specification

Product Name: 20KV Surge Protection Device

Product Model: MS-20KV-SPD

Product Code: MS012211-V0

Rev. B.3

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Prepared By	Checked By	Approved By

ECN History

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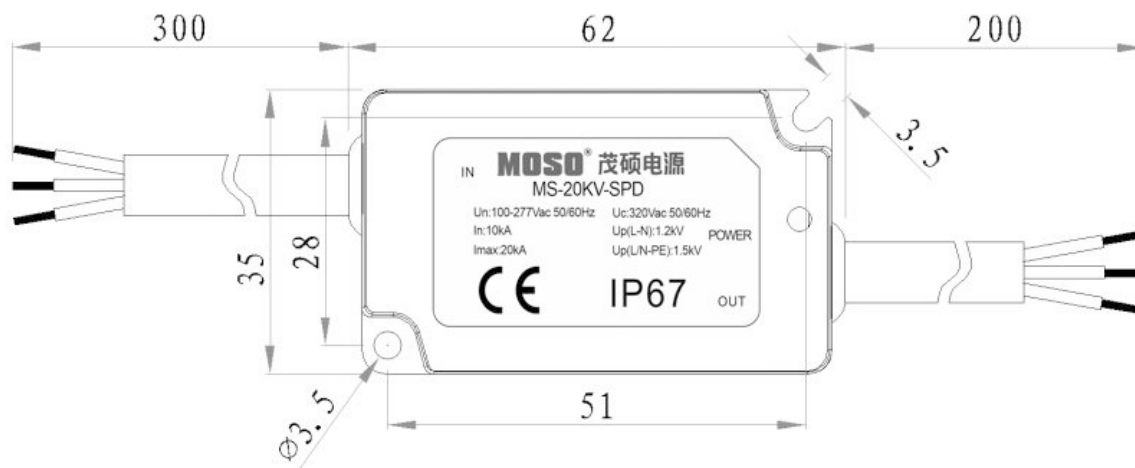
■ Features:

- Class I configuration
- protection Level L-N, L-PE, N-PE
- Conform to EN61643-11
- Thermal Fuse Disconnected
- Three-wire series connection
- Suitable for LED driver
- IP67, Can be used indoor and outdoor

1. Specification

Model	MS-20KV-SPD (300-Rubber wire-200)		
Application system	Single Phase power supply Protection level D		
Input voltage U_n	100-277VAC 50/60Hz		
Continued operating voltage U_c	320V		
Level of voltage protect U_n	L-N:1.2kV ; L/N-PE:1.5kV		
Nominal discharge Current $I_n(8/20\mu s)$	L-N	L-PE	N-PE
	10KA	10KA	10KA
Maximum discharge Current $I_{max}(8/20\mu s)$	L-N	L-PE	N-PE
	20KA	20KA	20KA
Combination Wave U_{oc}	20kV		
Maximum Input Current	10A(AC)		
Response time t_A	L-N:≤25ns ; L- PE:≤100ns; N-PE:≤100ns		
Rated power	2kW		
Applicable temperature	-40~+70℃		
Standards complied	Conform to UL 1449 (Class I) ; GB18802.1 ; EN61643-11. EN61000-4-5		
Dimension	62mm*35mm*36mm (L*W*H)		
Lead wiring	3x1.0mm ²		
LED indication function	SPD working Normal	SPD Failure	
	Turn On	Turn Off	

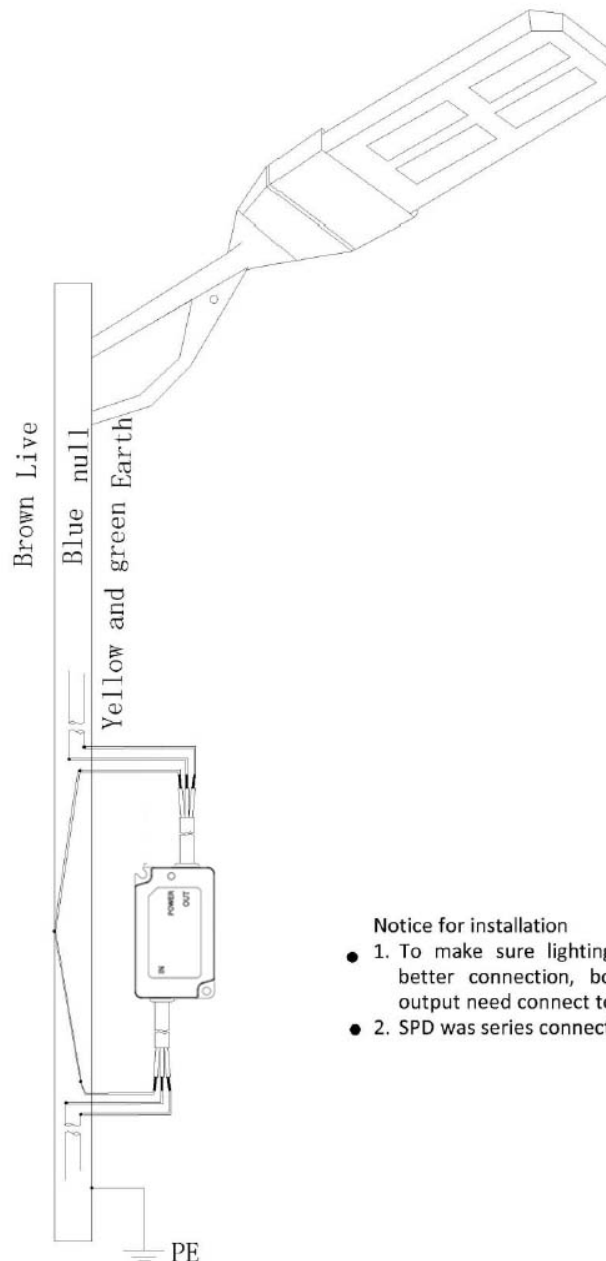
2. Outline drawing





3. Installation

Wire series connection: open the wire connecting box, connect one wire with power grid, connect another wire to LED driver. Then connect SPD brown wire to Live wire, connect blue wire to Neutral wire, connect yellow/green wire to earth wire. The connection point need to be welded safely according to IEC standard. Then put SPD into wire connecting box and fix it by screw.



Notice for installation

- 1. To make sure lighting pole and earth have a better connection, both Earth line Input and output need connect to lighting pole,
- 2. SPD was series connected in the LED circuit .