

产品名称: 路灯电涌保护器

产品型号: HD-LED20B

规格书

SPECIFICATION
FOR
APPROVAL

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类别

Classification

●新发行 New

○工程变更 Changed

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产品规格Product specifications

产品名称 Product Name	路灯电涌保护器 Street Light Surge Protector
产品型号 Product Model	HD-LED20B
标称电压 Un Nominal Voltage	100~277 V ac
标称放电电流 In Nominal Discharge Current	10kA
认证 Approvals	UL
制造商 Manufacture	广州市海德防雷科技有限公司 GZ Haide Lightning Protection Technology Co., Ltd.
产地 Country of Origin	中国 China
技术部审核 Reviewed By 生产部审核 Produced by 品保部审核 Approved By	

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客户批准Customer Approval

客户名称 Custome Name	
生效日期 Effective Data: 年 YY 月 MM 日 DD	
如果本产品规格货的您的批注, 烦请签名并拷贝一份副本给我们。 Note: If you approve this specifition, Please sign and return one hardcopy to us. Yours faithfully.	

产品名称：路灯电涌保护器

产品型号：HD-LED20B

适用范围

1、适用Scope of Application:

本规格书所述产品适用于 100V~277Vac 单相交流 LED 电源系统。
The specification is available for 100V~277V Single phase AC LED power supply system

结构特征

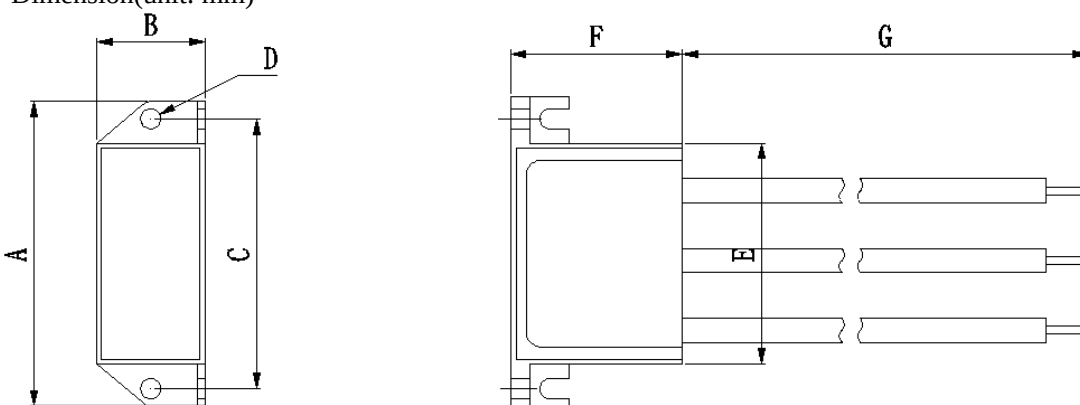
2、结构特征Structure Characteristics

2.1 产品结构：内置压敏电阻和放电管
Product Structure: combination of MOVs and GDTs

2.2 封装材料：环氧树脂，符合 UL QMFZ2/8
Potting Material: epoxy resin, comply with UL QMFZ2/8

2.3 引线：多股绝缘软线,符合 UL AVL2/8
Lead wire: Multiple strands of insulated wire, comply with UL AVL2/8

2.4 尺寸（单位：毫米）
Dimension(unit: mm)



A	B	C	D	E	F	G
62±0.2	22±0.2	55±0.2	4.1±0.2	45±0.2	35±0.2	150±20

长度 G 可以按客户要求定制。
Note: The lead length “G” can be customized as required

产品标示

3、产品标示 Product Identification

Haide® Street Light Surge Protector

HD-LED20B

CE RoHS

cULus E500951

POWER SUPPLY

N L

SPD

White-N

Green-G

Yellow-L

Black-L

Uc:320Va.c.

Uoc:20KV

In:10KA

Up(L-N):2.1KV

Up(L/N-PE):3.5KV

f:50/60Hz

ta:-40℃~+70℃

MADE IN CHINA

产品名称: 路灯电涌保护器

产品型号: HD-LED20B

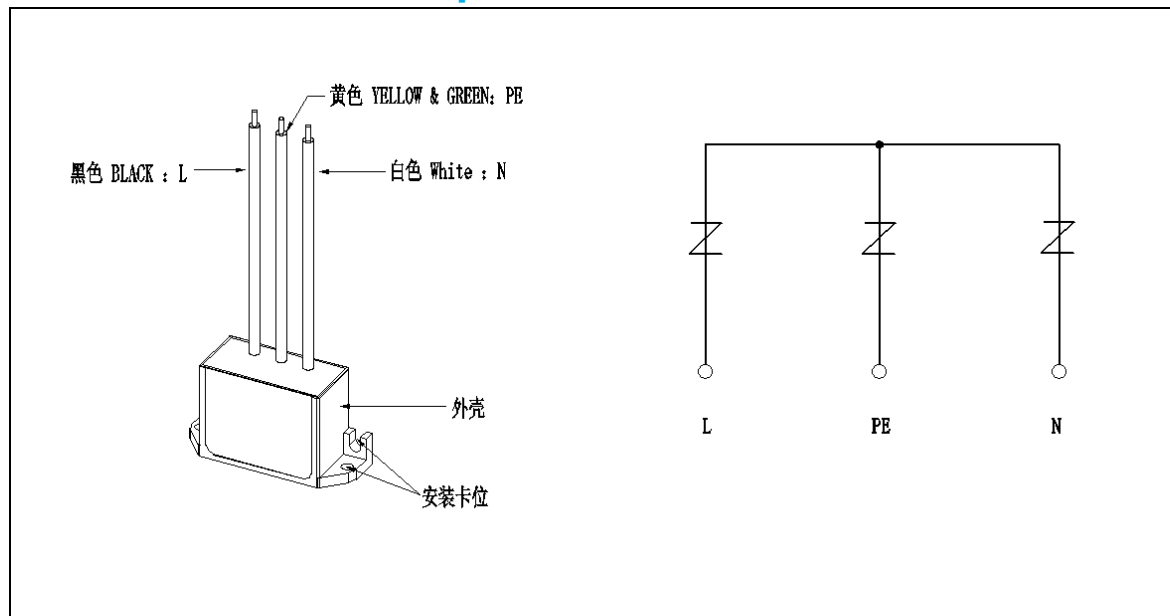
技术参数

4、技术参数 Technical Data

技术特征 Technical Feature	技术参数 Technical parameter	测试标准 Standard
标称系统电压 Un Nominal system voltage	100~277 V ac	UL1449 IEC 60950 IEC 60065
最大连续工作电压 Uc Max. continuous operating voltage	320V ac	
标称放电电流 In (8/20μs) Nominal discharge current	10kA	
复合波 Uoc(8/20us & 10/350us) Combination Wave	20kV	
L-N 电压保护水平 Up(L-N) L-N Voltage protection Level	2.1kV	
L/N-PE 电压保护水平 Up (L/N-PE) L/N-PE Voltage protection Level	3.5kV	
常规冲击电流 IN Nominal surge current	0.75kA 3	
常规冲击电流耐受次数(8/20 μs) Duty cycle surge rating	1600 100	
最大冲击电流耐受次数 Number of surges maximum current	1	
保护等级 Isolation classification	Suitable for Class II	
外壳防护等级 IP Code	IP67	
工作条件 Operating Conditions	-40~+70°C	
海拔 altitude	≤2000m	
重量 Weight		
产品工作寿命 Lifetime @ Tc life, 90% survivals	100,000 hrs	
是否适用户外 Suitable For Outdoor use	是 YES	

结构图

5、结构图 Structure Representation



注意事项

6、注意事项 Note

- 6.1 安装之前阅读并理解所有说明;
Before you install read and understand instruction book
- 6.2 装配时应避免出现如敲击等作业方式, 避免造成本产品出现机械损伤;
Avoiding making mechanical damage on products, improper operation such as knocking when assembly is not allowed,
- 6.2 应用本产品的设备必须有可靠的接地线与大地相连, 地线长度应小于 0.5 米;
Equipment in which the products are used must have reliable grounding to the earth, the ground wire length less than 0.5m
- 6.3 未遵守说明操作可能会导致电气系统或相关设备损坏;
If you not obeying the instruction book may damage the electric system or some of equipment.
- 6.4 建议选型时先确认设备工作电压, 必须与保护器的参数匹配, 否则会严重影响线路工作。
It is necessary to confirm the working voltage of the equipment and match the parameters of the protector, otherwise the power system maybe seriously affected.
- 6.5 安装避雷器前应加装空气开关或熔断器, 以确定安全和便于日后维护;
We suggest instal a MCB before before the SPD,it is more safety and convenience of daily maintenance
- 6.6 维卸保护器时需由专业电工操作。
It needs to be operated by a professional electrician when the protector is install or Uninstall.

安装方法

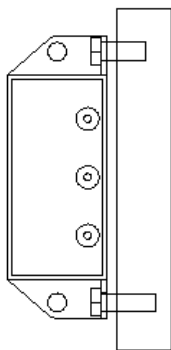
7、安装方法 Mounting Method

壳体或户外安装 (图 1, 图 2)

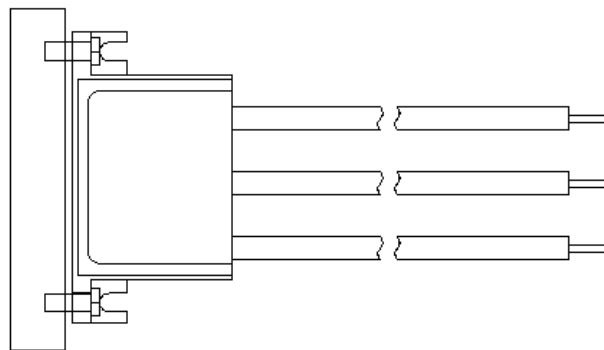
SPDs intended for use in enclosures or outdoor buildings (Picture 1, Picture 2)

注意: 安装完成后的线缆应避免直接阳光直射, 以免加速线缆绝缘层老化。

Notice: After installing, the cable shall not be under direct sunlight to avoid expediting aging of the insulating layer



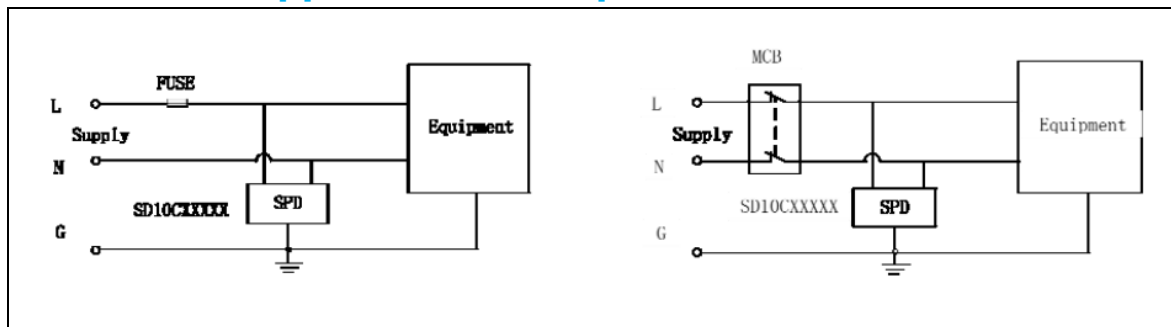
图Picture1



图Picture2

应用示例

8、应用示例 Application Examples



存储条件

9、存储条件 Storage Condition

9.1 推荐长期存储条件: 存储温度: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$; $\leq 75\% \text{RH}$;

Recommend Long-term Storage Condition: Storage Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$;
humidity $\leq 75\% \text{RH}$.

9.2 不要将本产品存放在有腐蚀性气体或阳光直接照射的环境中保管;

Please don't expose products to corrosive gas and sunlight.

9.3 存储期限: 2 年。

Storage Period: Two Years.