

# 规格承认书

## Specification for approval

产品名称: 1085gPV 系列 10x85mm 1500VDC 光伏保险丝

**Product Type: 1085gPV Series 10x85mm 1500VDC Photovoltaic Fuse**

**Dongguan Aolittel Electronics Technology Co., LTD**

电话: +86-769-38935409 传真: +86-769-38935409

厂址: 广东省东莞市大岭山镇金榄岭街27号

网址: <http://www.aolittel.com>

## 目录 Contents

1. 适用范围 / Scope of Application.....	3
2. 安规认证标准及编号 / Standards and Agency Approvals.....	3
3. 产品标示 / Product Marking.....	4
4. 外观及形状 / Appearances and Configuration.....	5
5. 结构及尺寸 / Dimensions and Structure.....	5
6. 材料明细 / Material Details.....	6
7. 产品特性 / Product Characteristics .....	
8. 电气特性 / Electrical Characteristics .....	6
9. 环境特性 / Environmental Characteristic.....	7
10. 安装建议 / Installation Recommendations .....	
11. 包装 / Packaging.....	8
12. 其他 / Others.....	9
附件 I: 安规证书 / Appendix I: Safety approval certificates .....	9

## 1. 适用范围 / Scope of Application

本产品适用于各类电子设备电路的过流保护作用, 广泛应用于太阳能电池板、光伏汇流箱等领域。This product is suitable for various kinds of electronic devices' circuit over current protection. Widely used in industrial of Solar Panel and PV combiner box, etc.

## 2. 安规认证标准及编号 / Standards and Agency Approvals

2.1 执行标准: 遵循 UL 248 -19。

Standards: In accordance with UL248-19.

2.2 认证范围 Certification:

额定电压 Voltage Rating	安规标准 Agency	认证范围 Ampere Range	证书编号 Agency File Number
1500VDC	UL	200mA ~ 25A	E502164(JFGA)
	C-UL	200mA ~ 25A	E502164(JFGA7)
	PSE	200mA ~ 25A	Pending
	KTL	200mA ~ 25A	Pending

2.3 目录编号 Catalogue No., A = 250V/ B =125V, ● Approved / ○ Pending

目录编号 Catalog No.	额定电流 Ampere Rating	额定电压 Voltage Rating	分断能力 Breaking Capacity	材质直径 Material and Diameter(mm)	安规认证 Agency Approvals		
					UL	C-UL	PSE JET
1085gPV0100	100mA	1500VDC	DC:1500A 30KV	E0.022	○	○	○
1085gPV0200	200mA	1500VDC		E0.023	●	●	○
1085gPV0250	250mA	1500VDC		E0.026	●	●	○
1085gPV0300	300mA	1500VDC		E0.030	●	●	○
1085gPV0315	315mA	1500VDC		E0.035	●	●	○
1085gPV0350	350mA	1500VDC		E0.060	●	●	○
1085gPV0400	400mA	1500VDC		E0.062	●	●	○
1085gPV0500	500mA	1500VDC		E0.065	●	●	○
1085gPV0630	630mA	1500VDC		E0.075	●	●	○

1085gPV0750	750mA	1500VDC		E0.090	●	●	○
1085gPV0800	800mA	1500VDC		E0.092	●	●	○
1085gPV1100	1A	1500VDC		E0.110	●	●	○
1085gPV1125	1.25A	1500VDC		E0.120	●	●	○
1085gPV1150	1.5A	1500VDC		E0.150	●	●	○
1085gPV1160	1.6A	1500VDC		E0.160	●	●	○
1085gPV1200	2A	1500VDC		E0.165	●	●	○
1085gPV1250	2.5A	1500VDC		E0.180	●	●	○
1085gPV1300	3A	1500VDC		E0.190	●	●	○
1085gPV1315	3.15A	1500VDC		E0.250	●	●	○
1085gPV1350	3.5A	1500VDC		E0.260	●	●	○
1085gPV1400	4A	1500VDC		E0.280	●	●	○
1085gPV1500	5A	1500VDC		E0.300	●	●	○
1085gPV1600	6A	1500VDC		E0.310	●	●	○
1085gPV1630	6.3A	1500VDC		E0.310	●	●	○
1085gPV1700	7A	1500VDC		E0.320	●	●	○
1085gPV1800	8A	1500VDC		E0.350	●	●	○
1085gPV2100	10A	1500VDC		E0.370	●	●	○
1085gPV2150	15A	1500VDC		E0.390	●	●	○
1085gPV2200	20A	1500VDC		E0.440	●	●	○
1085gPV2250	25A	1500VDC		E0.490	●	●	○

### 3. 产品标示 / Product Marking

保险丝两端铜帽上需有下列标示。

The fuses cap shall have the following markings.

示例 Example:

①	制造厂商标识/Reomax Trade Mark: AOLITTEL
②	系列型号名称/Series Type Name: 1085gPV 未标(Won't marked)
③	电器特性符号/ Electrical Characteristic symbol: <b>F</b> (快断型保险丝符号 / symbol for Fast-Acting)
④	额定电流/Rated Current (A): ___A 或 or ___mA
⑤	额定电压/Rated Voltage (V): <b>1500V</b>
⑥	认证符号/ Approval Marks: 

**注意 / Note:** 对于标示的大小和位置没有规定。

*Size and position of the markings shall not be provided.*

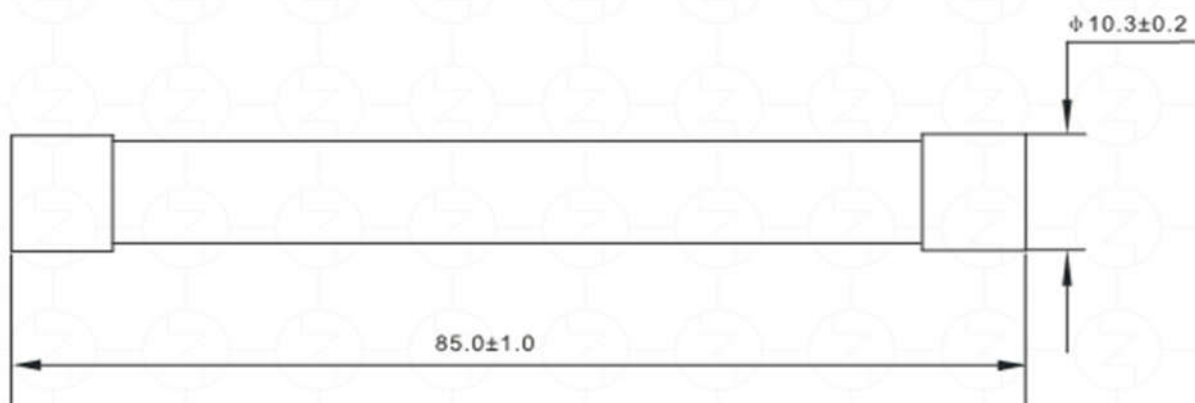
#### 4. 外观及形状 / Appearances and Configuration

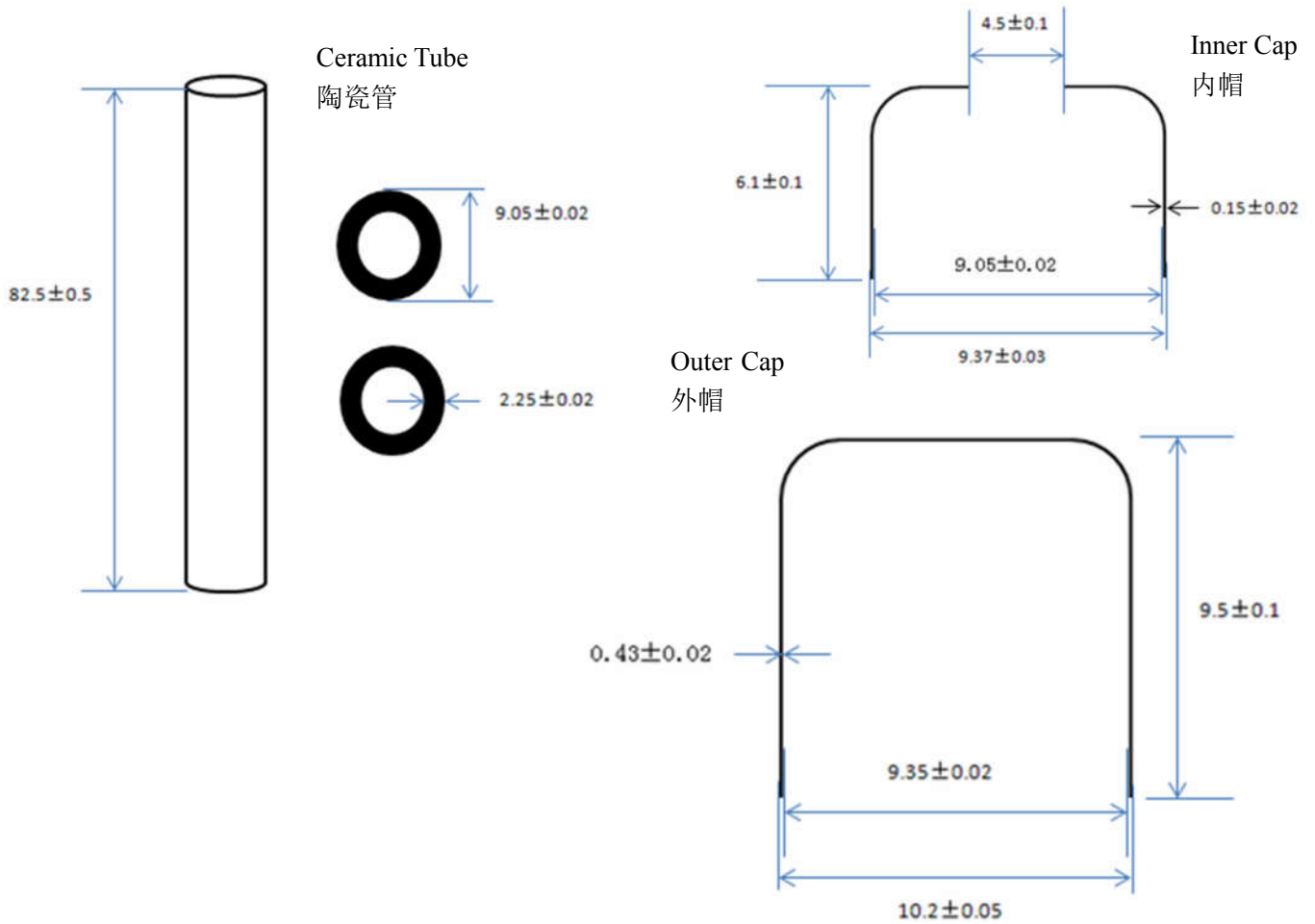
4.1 外观不应出现显著的污点、裂纹，标识应该容易辨识。

There shall not be any remarkable stain and crack on the appearances, markings shall be easily legible.

#### 5. 结构及尺寸 / Dimensions and Structure

单位: 毫米 / Unit: mm





## 6. 材料明细 / Material Details

编号 NO.	零件名称 Part Name	材质 Material
①	铜帽 Cap	黄铜镀锡 Tin Plated Brass
②	陶瓷管 Body	陶瓷管 Ceramic Tube
③	熔丝 Fuse element	纯银 STERLING SILVER BELT(99.9%)
④	填充 Filler	二氧化硅 Silica

## 7. 电气特性 / Electrical Characteristics

### 8.1 实验条件: Test Condition

所有测试环境温度均为  $25 \pm 5^\circ\text{C}$ 。

All electrical test is to be conducted with the ambient air at a temperature of  $25 \pm 5^\circ\text{C}$ .

### 8.2 负载能力 / Load capacity:

当保险丝通过 100% 的额定电流时，在 4 小时内不应熔断。

When the fuse loads through 100% of rated current, should blow within 4 hours.

### 8.3 分断能力 / Interrupting Rating:

保险丝承受分断能力:

1500 安培使用 30 千伏交流电源(1085gPV 对应额定电流  $I_n$  范围 200mA~25A);

Breaking Capacity:

DC:1500A 30KV (1085gPV  $I_n$  range 200mA ~ 25A);

### 8.4 温度上升试验 / Rising Temperature Test:

通 1.0 倍额定电流，当温度稳定时（5 分钟测量 4 次，且每次测量值与平均值相差不超过  $2^\circ\text{C}$ ）。测得熔断体任何部位的温升不得超过  $75^\circ\text{C}$ ，周围环境温度为  $25 \pm 5^\circ\text{C}$ 。

When the 100% times of Ampere Rating passes the fuse, after reaching thermal balance, the temperature on the fuse surface rising shall not be higher than  $75^\circ\text{C}$ . Note: Rising temperature = the Surface temperature - Ambient temperature.

### 8.5 熔断时限 / Operating Characteristics

额定电流的% % of Ampere Rating( $I_n$ )	熔断时间 Blowing Time
100%* $I_n$	大于 4 小时(4 hours Min)
135%* $I_n$	小于 1 小时(1 hour Max)
200%* $I_n$	小于 6 秒(6 sec Max)

## 8. 环境特性 / Environmental Characteristic

### 9.1 使用温度范围 / Operating Temperature

-55℃~+125℃。

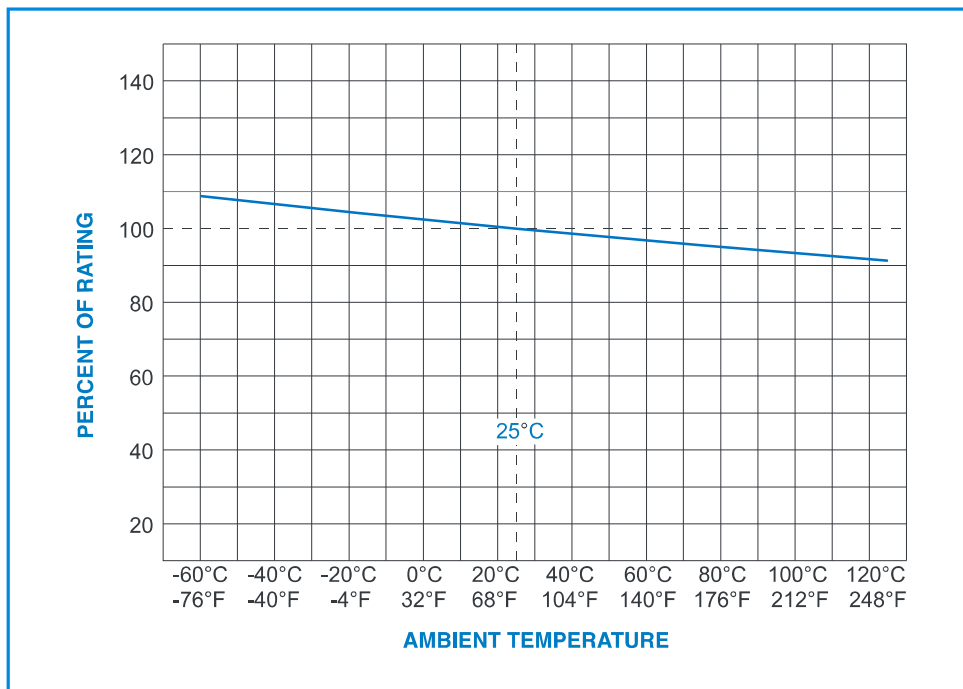
9.2 保存条件 Stock Condition

湿度：相对湿度 ≤ 75% 平均可以存放 3 年。

Humidity: Relative humidity ≤ 75% store 3 years in average.

9.3 若操作环境温度超出 25±5℃ 范围，在选用保险丝规格时，需考虑操作环境温度对保险丝的影响，请参照如下：温度-电流曲线图。

When choosing the fuse's specification, if the operating environmental temperature beyond the scope from 20~30℃, engineer should consider the environmental temperature's affection to fuses. Please refer: Temperature Rerating Curve:



9. 包装 / Packaging

11.1 包装袋/盒印明下列标示: / The following items indicated on the label:

产品料号、额定(电压、电流)、分断类型及安规名称。

Catalog number, ratings (voltage, current), interrupting type and safety mark.

包装材料均符合 RoHS/REACH/HF 的环保要求，且包装材料不会和零件发生化学反应，造成不良。

The packing material conforms to ROHS/REACH/HF environmental protection request. And

the packing materials will not have the chemical reaction with the components.

#### 11.2 包装数量 / Packing Quantity

每盒 100/1 个内盒 / 100 poly bags in per inner box;

每 10 个内盒 1 个外箱 / 4 inner boxes in per outer carton

### 10. 其他 / Others

12.1 如果在使用中有超出本规格书的要求，须经双方协商确认。

In the event that an impropriety is found beyond this specification, it shall be fixed by mutual agreement between the parties.

12.2 如果本规格书有不适当的情况，须通过双方协商并由本公司修改。

In the event that an impropriety is found in this specification, *AOLITTEL ELECTRONICS CO., LTD.* shall amend it by mutual agreement between the parties.

### 附件 I: 安规证书 / Appendix I: Safety approval certificates