

# 承认书

Specification For Delivery



RoHS

客户

CUSTOMER

部品番号

PART NUMBER

XSD-0503000SUSD

版本号: A0

客户承认回签  
Customer Approval

| 担当者 | 审核 | 承认 | 公司承认章 |
|-----|----|----|-------|
|     |    |    |       |

新赛科技有限公司

**SHENZHEN SUNSHINE TECHNOLOGICS CO.,LTD.**

地址:深圳市宝安区松岗街道定厚路 15 号

电话:0755-27081806/23579378 传真:0755-23579379

营业担当

SALES

覃

2023-08-09

瑶

新赛品名

X.S. P/N

技术担当

ENGINEER

阳

2023-08-09

国

责任人

RESPONSIBILITY

焦

2023-08-09

建伟



# Table of contents

## 目录

|                                      |       |
|--------------------------------------|-------|
| 安规标准 / SAFETY STANDARD.....          | P3    |
| 输入特性 / INPUT CHARACTERIST.....       | P3    |
| 输出特性 / OUTPUT CHARACTERIST.....      | P4    |
| 保护功能 / PROTECTION FUNCTION.....      | P5    |
| 环境要求 / ENVIRONMENTAL REQUIREMET..... | P5、 6 |
| 电磁兼容性标准 / EMC STANDARDS.....         | P7    |
| 测量设备 / MAJOR MEASURE EQUIPMENT.....  | P7    |
| 产品外观尺寸 / PRODUCT OUTLINE .....       | P8    |
| 线材 / DC CORD.....                    | P9    |
| 铭板 / RATING LABEL.....               | P10   |
| 包装图 / PACRING.....                   | P11   |

## UPDATE REV.

| REV      | UPDATE | DATE       | PRERARATOR |
|----------|--------|------------|------------|
| original |        | 2023.08.09 | 陈海英        |
|          |        |            |            |
|          |        |            |            |
|          |        |            |            |
|          |        |            |            |
|          |        |            |            |
|          |        |            |            |
|          |        |            |            |

## 1、安规标准/ SAFETY STANDARD:

1.1 The green mode power supply shall be certified by the following international regulatory standards: 电源应符合下列的国际标准:

| <input type="checkbox"/>            |     | Country        | CertifiedStatus | Standard / 標準                                      |
|-------------------------------------|-----|----------------|-----------------|----------------------------------------------------|
| <input type="checkbox"/>            | PSE | Japan / 日本     | APPROVED        | J62368, J55022                                     |
| <input checked="" type="checkbox"/> | UL  | USA / 美國       | APPROVED        | UL 62368-1: 2007                                   |
| <input type="checkbox"/>            | cUL | CAN / 加拿大      | APPROVED        | CAN/CSA-C22.2 No. 62368-1 (2007)                   |
| <input checked="" type="checkbox"/> | FCC | USA / 美國       | APPROVED        | Part 15 Class B                                    |
| <input type="checkbox"/>            | CE  | Europe / 歐洲    | APPROVED        | EN 55032:55035/EN 62368-1/EN 61558-1/EN 61558-2-16 |
| <input type="checkbox"/>            | GS  | Europe / 德國    | APPROVED        | EN 62368-1/EN 61558-1/EN 61558-2-16/AfP GS 2 1     |
| <input type="checkbox"/>            | BS  | UK / 英國        | APPROVED        | BS EN 62368-1/BS EN 61558-1/BS EN 61558-2-16       |
| <input type="checkbox"/>            | SAA | Australia / 澳洲 | APPROVED        | AS/NZS 62368-1:2011& AS/NZS 3112:2011              |
| <input type="checkbox"/>            | CCC | CN / 中国        | APPROVED        | GB4943-2001,GB1317625.1-2003                       |
| <input type="checkbox"/>            | KC  | KC/韩规          | APPROVED        | HU10898-16001C                                     |

## 2、INPUT CHARACTERIST / 输入特性:

2.1 输入电压范围可以从 90Vac 到 264Vac.

INPUT VOLTAGE RANGE: 90Vac to 264Vac.

2.2 额定输入电压从 100Vac 到 240Vac.

RATED INPUT VOLTAGE: 100Vac to 240Vac.

2.3 输入频率范围从 47Hz 到 63Hz.

INPUT FREQUENCY RANGE: 47Hz to 63Hz.

2.4 最大输入电流不超过 0.5A (输入条件 100-240Vac)

INPUT CURRENT: 0.5A max. (I/P100-240Vac).

2.5 在标准开机条件下, 最大浪涌电流不超过 50A (输入条件 100-240Vac).

INRUSH CURRENT: 50A max. at 100-240Vac input for a cold start at 25°C.



### 3、输出特性/ OUTPUT CHARACTERIST:

#### 3.1 输出功率/ Power output

| 额定输出<br>RATED OUTPUT | 最小负载<br>Min. Load | 额定输出负载<br>Rated Output Load | 输出功率<br>Output power | 空载功耗<br>No Load Power consumption |
|----------------------|-------------------|-----------------------------|----------------------|-----------------------------------|
| 5 VDC                | 0 A               | 3A                          | 15W                  | 0.1W                              |

#### 3.2 负载特性/ Combined Load

| 额定输出<br>RATED OUTPUT | 最小负载<br>Min. Load | 额定输出负载<br>Rated Output Load | 线性调整<br>Line Regulation | 负载调整<br>Load Regulation |
|----------------------|-------------------|-----------------------------|-------------------------|-------------------------|
| 5 VDC                | 0 A               | 3A                          | ±3%                     | ±5% (4.95V-5.60V)       |

#### 3.3 平均效率高于 81.38 % (输入 100-240Vac, 输出 (25%, 50%, 75%&100%负载) )

Higher than 81.38 % at 100-240Vac input and output (25%, 50%, 75% & 100% load.)

#### 3.4 纹波和噪音 Ripple and Noise:

测试条件:在额定电压及额定负载条件下,使用示波器带宽为 20MHz 连接到充电器的输出端,同时输出端并联一个 10uF 的电解电容和一个 0.1uF 的瓷片电容.

Under nominal voltage and nominal load,the ripple and noise are as follows when measure with Max.Bandwidth of 20MHz and Parallel 10uF/0.1uF,crossed connected at testing point.

| 电压 / <u>Voltage</u> | 最大纹波/最大噪音 / <u>Ripple and Noise(Max.)</u> |
|---------------------|-------------------------------------------|
| +5 VDC              | ≤150mV p-p                                |

#### 3.5 启动延迟时间/Turn on delay time:

当输入 115Vac 和输出最大负载时,最大启动时间为 3S.

3Second Max.at 115Vac input and output Max.load.

#### 3.6 保持时间/Hold up time:

当输入 115Vac 和输出最大负载时,最小保持时间为 5 mS .

5 mS Min.at 115Vac input and output Max.Load.

#### 3.7 绝缘介电强度 (耐压) / ELECTRIC WITHSTANDING STRENGTH(HI-POT)

一次侧对二次侧: AC3300V/10mA 标准测试 1 分钟, 量产测试 3 秒钟

Primary to Secondary AC3300V/10mA , 1 minute for type test. 3 second for production.

#### 3.8 过冲/Overshoot:

在电源开启或关闭的时候, 最大 10%.

10% Max.When power supply at turn or turn off.

#### 4、保护特性/PROTECTION FEATURE:

##### 4.1 过电流保护 / OVER - CURRENT PROTECTION:

在任何时候任何输入条件，当输出操作在超载条件最大电源的（110～130%）时，电源供应器将进入打嗝模式，当故障被移走后，电源要能自动恢复到正常。

The green mode power supply shall be hiccupped when any output operating in overload condition(set@ Max load 110～130%) under any line condition for an indefinite period of time. The power supply shall be self - recovery when the fault condition is removed.

##### 4.2 输出短路保护/ SHORT CIRCUIT PROTECTION:

在任何时候，任何输入条件下，当输出操作在短路情况下，电源供应器将进入打嗝模式，当故障消失后，电源要能自动恢复正常。

The power supply shall be hiccupped and no damage shall occur when any output operating in a short circuit condition under any line condition for an indefinite period of time. The power supply shall be self - recovery when the fault condition is removed.

#### 5、环境条件 / ENVIRONMENTAL CONDITIONS:

##### 5.1 操作条件 / OPERATING:

在下列环境条件下，电源供应器要能够连续操作在各种模式，且不能造成性能的退化。

The power supply shall be capable of operating continuously in any mode without performance deterioration in the following environmental conditions.

##### 5.1.1 环境温度：0℃～40℃

Ambient Temperature: 0℃ ~ 40℃

##### 5.1.2 相对湿度：10%～90%

Relative Humidity: 10% ~ 90%

##### 5.2 振动 / Vibration

测试标准:国际电工电子委员会

Operating: IEC 721-3-3 3M3 5~9Hz,A=1.5mm

加速度(9~200Hz,Acceleration 5m/S<sup>2</sup>)

### 5.3 冷却 / Cooling:

电源供应器将操作在对流冷却的环境下，即使将通风口阻塞电源也不允许有任何损伤发生。

The power supply will operate with convection cooling .Blocking of vents must not cause damage to The power supply.

### 6、储存条件 / Storage conditions:

电源供应器要能够长期的经受下列的环境条件，且不允许有电气级机械方面的损伤和并发的操作的缺失。

The power supply shall be capable of withstanding the following environmental conditions extended periods of time, without sustaining electrical or mechanical damage and subsequent operational deficiencies:

#### 6.1.1 储存温度：-30℃~70℃

Storage Temperature: - 30℃ ~ 70℃

#### 6.1.2 相对湿度：10%~90%

Relative Humidity: 10% ~ 90%

#### 6.2.3 振动和冲击 / Vibration and Shock:

电源供应器装配及出货的包装设计，均要能承受正常运输的振动，并符合 MIL-STD-810D 方法 514 和程序 X。

The power supply shall be designed to withstand normal transportation vibration per MIL-STD-810D, method 514 and procedures X, as it s mounted in the chassis assembly and packed for shipping.

### 7、可靠性及质量控制 / RELIABILITY AND QUALITY CONTROL:

#### 7.1 老化 / BURN-IN

电源应在 40℃~±5℃ 和满载条件下老化 2 小时。

The power supply shall undergo a minimum of 2 hours Burn-In test under full load at 40℃~±5℃

#### 7.2 组件温度要求 / COMPONENT DERATING:

半导体结温不允许超过其制造商要求的最大温度值。

Semiconductor junction temperatures shall not exceed the manufacturer' s maximum thermal rating.



## 8、电磁兼容性标准 / EMC STANDARDS:

### 8.1 EMI 标准 / EMI STANDARDS:

本电源供应器符合辐射及传导要求, 满足 FCC CLASS B, EN55022 CLASS B.

The power supply met the radiated and conducted emission requirements for FCC CLASS B.

### 8.2 EMS 标准 / EMS STANDARDS:

本电源供应器满足下列 EMS 标准

The power supply shall meet the following EMS standards:

EN 55035: 2017; Part 15 Subpart B, IC ICES-003

## 9、符合节能 6 级标准, 测试标准如下 / Energy Saving (Level VI / Level 6 ):

9.1 CEC Test Report (CEC Table U-2 Standards for Power Supplies Effective July 1, 2008)

9.2 EUP Test Report (COMMISSION REGULATION (EC) No 278/2009)

9.3 MEPS (AS/NZS 4665.2-2005)

## 10、绝缘阻抗 / INSULATION RESISTANCE:

输入对输出 50 兆 欧姆 (500VDC)

Input to output: 50M OHM(500VDC)

## 11、漏电流 / LEAKAGE CURRENT:

当电源供应器操作在最大输入及最大负载情况下, 其漏电流应小于 0.25mA, 满足 class II 等级。

The leakage current shall be less than 0.25mA for class II when power supply is operated maximum input voltage and maximum load.

## 12、主要测量设备 / MAJOR MEASURE EQUIPMENT:

A. AC SOURCE / 交流输入电源: AFC - 500W

B. POWER METER / 电源功率计: CHROMA 2100

C. ELECTRONIC LOAD / 电子负载: PRODIGIT 3310C

D. OSCILLOSCOPE / 存储示波器: TDS-2012B

E. DIGITAL MULTIMETER / 数字式万用表: Fluke 4.5

F. DC POWER / 直流输入电源: WYK - 6030

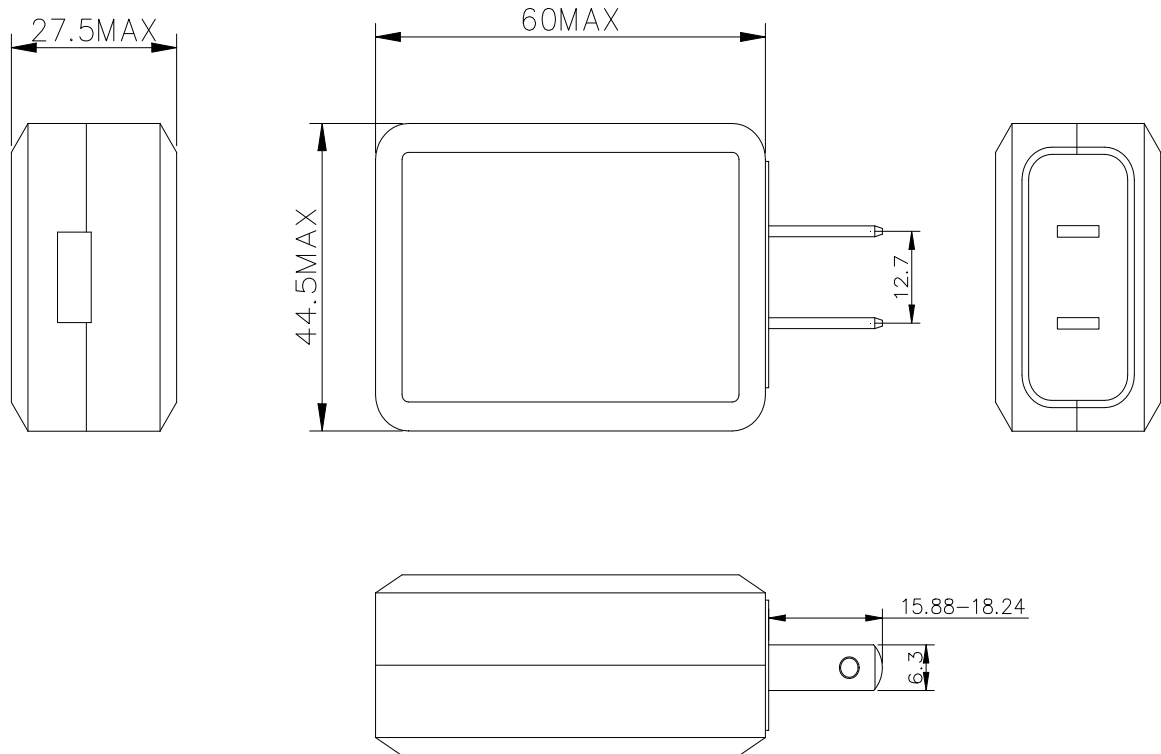
G. HI - POT TESTER / 耐压测试仪: LANKE ELECTRONICS 7112

H. INSULATION RASISTANCE TESTER / 绝缘电阻表: YD2681A



## 产品外观尺寸 / PRODUCT OUTLINE DIMENSION

Unit / 单位:mm



### 13、重量 / WEIGHT:

电源的重量大约为 86.7 g

The weight of the power supply shall be about 86.7 g.

### 14、结构参数 / MECHANICAL REQUIREMENT:

外型尺寸: L60\*W44.5\*H27.5mm

The power supply size: L60\*W44.5\*H27.5mm.

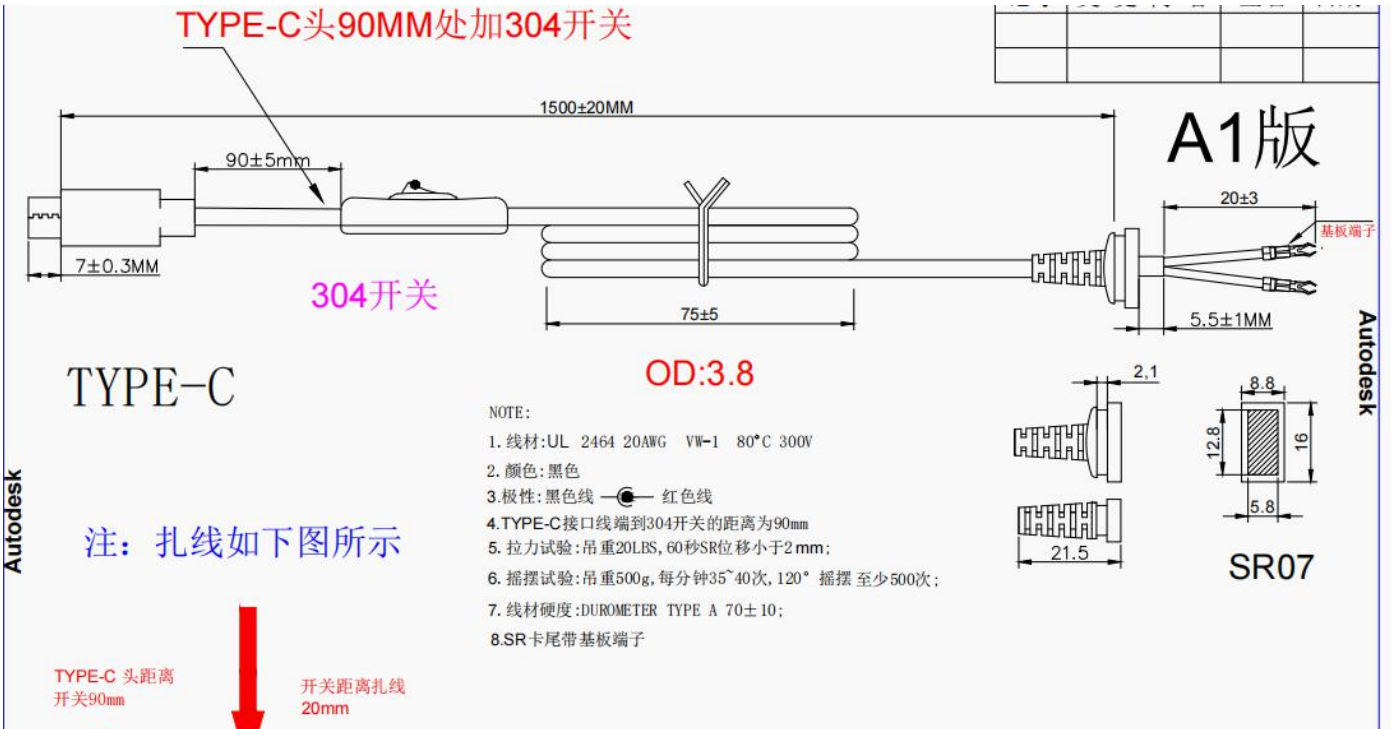
### 15、颜色 / COLOUR:

☒ 黑色/Black    ☐ 白色/White



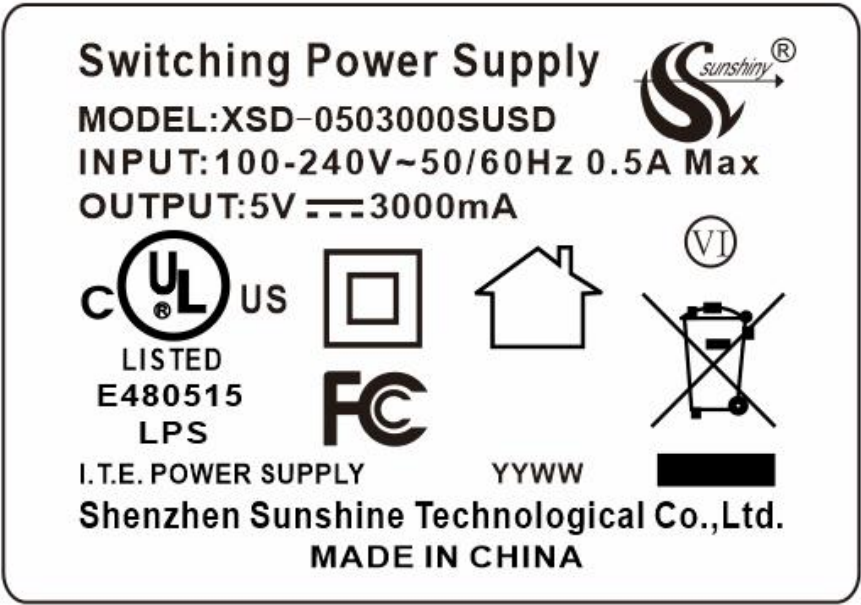
# DC CORD / 线 材

Unit / 单位:mm



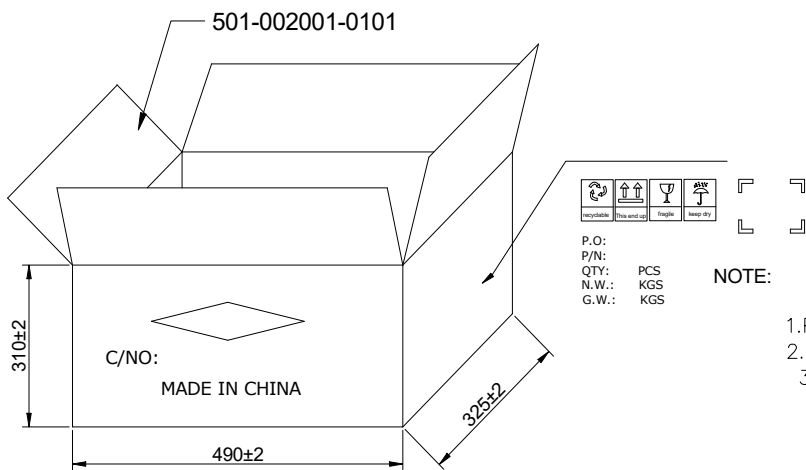
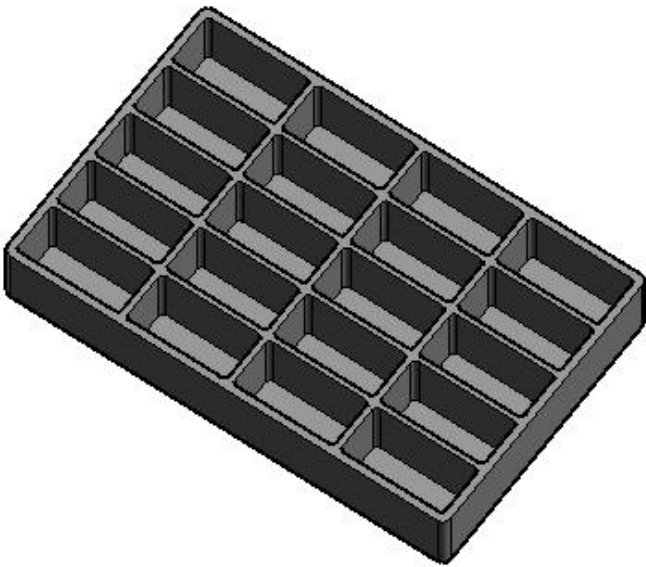
RATING LABEL / 铭 牌

Unit / 单位:mm  
Tolerance / 公差:+0/-0.2mm



激光镭雕

RATING LABEL / 包装图



- 1. PE 袋/吸塑包装，每箱包装80 台。
- 2. PK 箱标示尺寸为外部尺寸
- 3. PK 箱印前後相同，左右相同，印刷颜色为黑色

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Adafruit:](#)

[5801](#)