

	鑫瑞辉腾电源（东莞）有限公司 Shrinton Electron Technology CO., LTD.		REVISION (版本)	A/0
			DATE (日期)	2024-04-24
PART NUMBER (样单编号)	202403051	CUSTOMER MODEL (客户型号)	HT-PD27W-KC	

APPROVAL SHEET

(承认书)

FOR

AC/DC ADAPTER

(适配器)

MODEL NO.

(型号)

HT-PD27W-KC

MANUFACTURER (制 造 商)			
EDIT (制 订)	CONFIRM (确认)	CHECK (审核)	APPROVAL (批准)
陈灵芝			

CUSTOMER APPROVAL (客户承认)		
签收:	印章:	日期:

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1. General Description(概述)

This specification defines the input, output, performance characteristics, and environment, noise and safety requirements for **27Watts** adaptor. (The environment temperature is 25℃ or aging test after 15 minutes).

(本规格详细说明了 **27W** 的适配器输入、输出特性、环境、噪音和安全要求。(环境温度为 25 度或老化 15 分钟后进行测试)

2. Environment Protection Laws（环保法规）

☒ ROHS
☒ REACH
☐ CPSIA
☐ EN71
☐ PHTHALATE
☐ HALOGEN

3. According with Safety and EMC Criterion（符合的安全及电磁兼容标准）

☐ EN62368-1
☐ EN61558-1
☐ J60065
☐ EN55022
☐ UL62368-1
☐ UL1310
☐ J55013
☐ EN55024
☐ GB4943.1
☐ GB9254
☐ GB17625.1
☐ FCC Part15

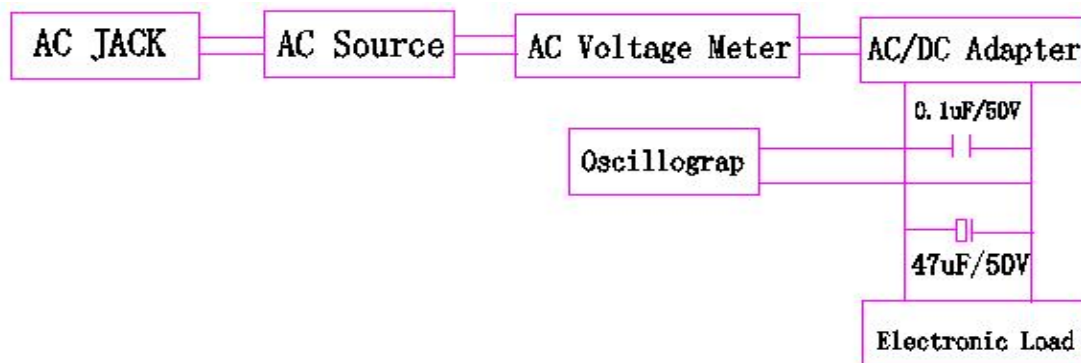
4. Safety and EMC Approval（已认可的安全 及电磁兼容标准）

☐ CB
☐ TUV/GS
☐ CE
☐ PSE
☐ UL
☐ FCC
☐ SAA
☐ C-tick
☒ KC
☐ CCC
☐ ETL
☐ E-mark

5. Test Circuit (测试电路)

If the test is to be made on a specified circuit, be sure to use the following circuit.

(无特殊规定的情况下依照下面的电路进行测试.)



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6. Input Characteristics (输入特性)

6.1 Rated Input Voltage (额定输入电压)

Rated input voltage is from **100Vac** to **240Vac**.

(额定输入交流电压 **100V~240V**)

6.2 Rated Frequency (输入频率)

It is normal for **50Hz** or **60Hz** and single phase.

(输入频率 **50Hz/60Hz**)

6.3 Steady AC Current (AC 输入电流)

The maximum input current shall be less than **0.6A** at 100~240Vac input

(在额定输入电压 **100V~240V** 时输入电流小于 **0.6A**)

6.4 Inrush Current (峰值输入电流)

With cold starting, input AC 240V the inrush current should **80A Max**

(电源启动时最大峰值输入电流小于 **80A**)

6.5 Standby (待机功耗)

The input power shall be less than **0.1W** at **115 or 230V**ac input.

(在输入电压 **115V 或 230V** 时待机功耗小于 **0.1W**)

6.6 Efficiency (效率)

Measured at 115Vac or 230Vac input voltage, Average efficiency can reach energy star VI

(**5.1V:84.34%** , **9V/12V/15V:86.62%**)standard

在输入电压 115Vac 或 230Vac, 平均效率可达到能效六级(**5.1V:84.34%** ,

9V/12V/15V:86.62%)标准

7. Output Characteristics (输出特性)

7.1 Rated Output Voltage (额定输出电压)

No load voltage (空载输出电压范围): **5.1V 9V 12V 15V ±5%**

Full load voltage (满载输出电压范围): **5.1V5A 9V3A 12V2.25A 15V1.8A ±5%**

7.2 Rated Power (额定功率)

This adaptor is capable to support **27Watts** continuously at all specified conditions.

(额定功率为 **27Watts**)

7.3 Ripple and Noise (纹波和噪音)

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Ripple voltage is **200mV** p-p (Full load) measured methods: Performed by 20MHz bandwidth in oscilloscope Applied 0.1uF ceramic capacitor and 47uF electrolytic capacitor across output connector terminals Measured at the end of DC cable. The environment temperature is 25°C or aging test after 15 minutes.

(输出端并 0.1uF 与 47uF 电容，限制示波器带宽 20MHz 时，测得纹波小于 **200mV** p-p,环境温度为 25 度或老化 15 分钟后进行测试)

7.4 Protection（保护）

7.4.1 Over Voltage Protection（过压保护）

The power supply shall protect itself from any over voltage condition.

电源在过压情况下可自动保护。

7.4.2 Over Current Protection（过流保护）

OCP Point Limited: **105%~200%** of Max. Load. The output shall hiccup when the over current applied to the output, and shall be self-recovery when the fault condition is removed

过电流点为最大负载的 **1.05~2.0** 倍，输出将进入打嗝模式，当过电流情况解除后，产品将会自动恢复正常。

7.4.3 Short Circuit Protection（短路保护）

The input power shall decrease when the output short, the power supply shall no damage, and shall be self-recovery when the fault condition is removed.

（当输出短路时,产品输入功率降低且不会损伤,当短路情况解除后,产品将会自动恢复正常。）

8. Reliability Items (可靠性项目)

8.1 Electrostatic discharge (静电)

At 150pF: 330Ω, for each point, 10 shots of direct discharge or air discharge (1 MΩ/ SHOT), have no malfunction. Direct discharge: **±4kV**, Air discharge: **±8kV**

(在接触放电**±4kV** 和空气中放电**±8kV** 模式下,各处分别放电 10 次无误动作)

8.2 Hi-Pot Test (高压测试)

Primary to Secondary: **3000Vac /10mA**Max / 3S

初级对次级: **3000Vac / 10mA**Max /3S

8.3 Insulation Resistance (绝缘电阻)

100MΩ min. between primary to secondary add 500Vdc test voltage.

在初级与次级间加 **500Vdc** 进行测试，最小 **100MΩ**。

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8.4 Leakage Current (泄漏电流)

0.25mA maximum, at nominal AC input voltage and frequency
(输入时泄漏电流不得 **0.25mA** max)

8.5 Burn-In Test (老化测试)

2 hours at **40°C** maximum, Normal input voltage, rated load.
(在高温 **40°C** 工作 **二** 小时情况下, 输入电压和额定负载正常。)

8.6 lightning test (雷击测试)

在每个选定的试验部位上, 正、负极性的干扰 **5** 次, 浪涌最大重复率为 1 次/min
共模试验的各级参数为 **1kV**

At each selected test site, the interference of positive and negative polarity was 5 times, and the maximum surge repetition rate was 1 time /min
The parameters of common mode test are **1kV**

9. Mechanical Requirement (机械要求)

9.1 Weight (重量)

/g ± 10g

9.2 Input plug type (输入插头类型)

Wall-mounted type. **KC-pin. 2** Conductors, < Live. Neutral > (**韩规** AC 输入 **2PIN** 插头)

9.3 Drop Test (跌落试验)

Drop the adaptor from a height of **75cm** onto a hardwood floor, hitting the adaptor for **3** times, no mechanical damages or other failures, no electrical deterioration and other failures comparing to before test condition.

(制品从 **75cm** 处落下 **3** 次, 落下的方向任意, 落在硬木地板上, 实验后与实验前状态比较没有机械破损等不良状况,且不出现电器性能损坏)

10. Environmental Performances(环境性能)

10.1 Operating temperature range (工作温度范围)

The product should operate at **0~40°C**, test of operating for **4 hours** at **0°C ± 2°C** and **40°C ± 2°C**.

(该产品工作温度范围为 **0~40°C**, 低温 **0°C ± 2°C** 和高温 **40°C ± 2°C** 工作试验各 **4** 小时)

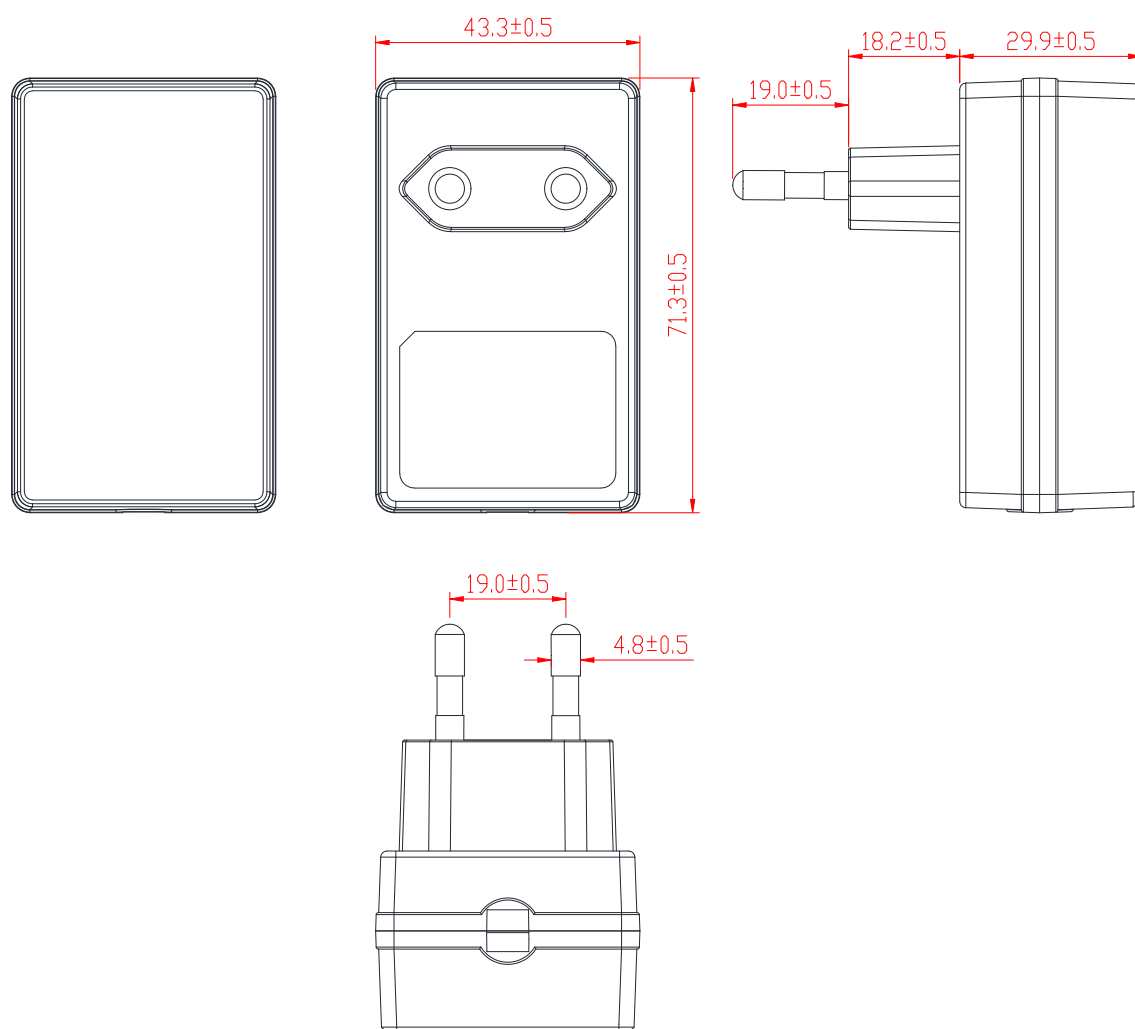
10.2 Storage temperature range(存储温度范围)

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The product should be stored at $-25\sim70^{\circ}\text{C}$, test of non-operated for **16 hours** at $-25^{\circ}\text{C}\pm2^{\circ}\text{C}$ and $70^{\circ}\text{C}\pm2^{\circ}\text{C}$.

(该产品存储温度范围为 $-25\sim70^{\circ}\text{C}$, 非工作状态下进行低温 $-25^{\circ}\text{C}\pm2^{\circ}\text{C}$ 和高温 $70^{\circ}\text{C}\pm2^{\circ}\text{C}$ 存储试验各 **16** 小时)

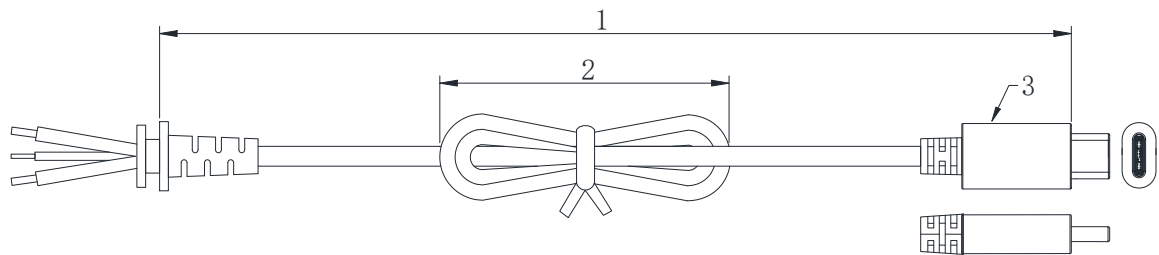
11. Product Outline Drawing （制品结构尺寸图）



颜色 (color)
白色 (white)

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12. DC Output Cable and Plug Drawing （输出线材图）



Note/备注:

- 1.Cable/线材:UL2464 18# Cable length/线材长度:1200±50mm 80℃ 300V VW-1, white/白色;
- 2.扎线后/ After binding length:80±20mm;
- 3. DC Plug /DC 插头: TYPE-C 头;
- 4. Appearance details are subject to the actual samples/外观详情参考实物为准。

13. Ratin Label Drawing （标贴图纸）



标贴：镭雕

注：“周期：YYXX”,YY 代表生产年份，XX 代表生产周期
大货根据实际周期镭雕

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14. Packaging vector diagram（包装矢量图）

1. Customer requirements customer requirements by packaging/客户有要求的按客户要求包装。
2. Customer requirements according to our request package/客户无要求按我司要求。

5*10*2layers,total=100PCS

