

SPECIFICATION FOR APPROVAL

客户承认书

Customer ID 客户: 141141-UKB P/N No.: KRE-0900950L Model No. 型号: KRE-0900950L
 Sample Date 日期: 2017-07-03 Design No. 设计流水号: 170616-141141-140012-B6



景荣企业有限公司
 中山市景荣电子有限公司

KINGRONG ENTERPRISE LTD. (Since 2008)

ZHONGSHAN KINGRONG ELECTRONICS CO., LTD.

客户承认书

SPECIFICATION FOR APPROVAL

CUSTOMER ID/客户编号: 141141-UKB

DESCRIPTION/概述: Linear Power Supply(AC/AC adaptor)

CUSTOMER P.N. /客户料号:

PART NO. /产品编号: KRE-0900950L REV: 1.0 RoHS: Yes

CUSTOMER AUTHORIZED SIGNATURE/客户承认签核

Notes Special 特殊要求	1.	Signature & seal: Date:
	2.	
	3.	
	4.	

Sign it means acknowledge our sample(s) performance and we production to samples. In the event of discrepancies between the sample(s) and specification, the sample(s) shall prevail. /客户确认签字, 盖章即视为确认样品性能, 以样品为准生产.

Address: 32 CuiHuJu, YangGuangMeiJia, No.138 MinAn Rd South, XiaoLan, ZhongShan, Guangdong, 528415 China

地址: 广东省中山市小榄镇民安南路 138 号阳光美加翠湖居 32 号

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盖章前审查: 拍照了吗? 录入产品库了吗?

	KINGRONG ENTERPRISE LTD. 景荣企业有限公司	Approved by:	Checked by:	Prepared by:
		黄秀红	吴静雯	王苑

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0. Reversion List /变更履历表

变更后立即通知生产更新资料，切记！

Rev. 版本	Date 日期	Description of Changes 变更内容描述	Notes 备注
1.0			
2.0			
3.0			

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1. Electrical Characteristics /电子性能

1.1 Input Voltage & Frequency/输入电压与频率

额定输入电压 Rated Input Voltage	AC230V
额定输入频率 Rated Input Frequency	50Hz
最大空载电流 Max. Exciting Current (no load)	60mA max
空载功率 Maximum No Load Power	2 W max

1.2 Output Performance/输出电压与电流性能

输出电压 Output Voltage	9V ±5%
负载电流 Rated Load Current	950mA
空载电压 No Load Voltage	11.1V ±5%

2. Safety Test /安全测试

2.1 Hi-Pot Test /高压测试

Primary to Secondary & Case for Class I /初级对次级及外壳::

1500Vac /10mA Max / 60 seconds

Primary to Secondary & Case for Class II /初级对次级及外壳::

3750Vac /10mA Max / 60 seconds

Leakage Current/漏电流

0.25 mA max. at 264Vac / 50Hz

2.2 Insulation Test /绝缘测试:

DC 500V 100 MΩ min between input to output plug and case (or core).

输入对输出 &外壳(或铁芯)施加 DC 500 V, 绝缘电阻最小 100 MΩ.

2.3 Temperature Rise /温升测试:

When at rated AC input/额定输入, output rated load/输出额定负载shall not exceed/表面温升≤ **65℃** on input coil, at ambient temperature 25℃±3℃.

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2.4 Overload Test /过载测试:

In an ambient temperature of 25℃ applies a power source of rated input with the output load adjusted to 5% of rated output and rated continuously for 4 hours, after turning off 60 minutes in normal temperature, shall meet item 2.1 ~ 2.2. 环境温度为 25℃的情况下,适配器不间断工作 4小时,且额定输入及输出有 5%调整率;断开电后恢复 60分钟,需满足 2.1~2.2的要求。

2.5 Life Test /寿命试验:

In an ambient temperature of 40℃, 90~95% R.H., reliability humidity applied a power source of rated input with rated load and operated continuously for 4 hours, after taken out from oven. Shall meet item 2.1 ~ 2.2.

在温度为 40℃、湿度为 90~95%的环境下,额定输入负载工作 4小时,取出烤箱后需满足 2.1~2.2的要求。

2.6 Humidity Test /湿度测试:

Temperature 40±2℃, 90~95% R.H. for 48 hours, after taken out from oven. Shall meet 2.1.

在 40±2℃,湿度 90~95%的环境下,放置 48小时,取出烤箱后需满足 2.1的要求

2.7 Caution(Attention) /警示(注意):

RISK OF ELECTRIC SHOCK DRY LOCATION USE ONLY (POUR UTILISATION À L'INTÉRIEUR SEULEMENT).

触电危险,仅用于干燥环境下使用。

3. Mechanical Characteristics /机械特性

3.1 Strain Relief Test /拉力测试:

Plug and cord, at their normal position applied a weight of 20lbs to input plug, 5 lbs to output cord, for 60 seconds each, there shall be no broken of lead or other damage result.

输入插头能承受 20lbs的拉力,输出线能承受 5lbs的拉力,无任何损坏。

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3.2 Drop Test /落地测试: (EI48 & above, and desktop type are not applicable)

Products shall be dropped from a height of 0.75 m, onto 1cm thickness dry wood surface 3 times, after shall no abnormal condition happen, and insulation test 10 MΩ min. 产品从 0.75米高度落下, 落在 1 cm厚的干木板上跌落 3次, 产品无异常; 绝缘测试最小为 10 MΩ.

3.3 Cord Bending Test /摇摆测试:

The cord shall withstand a weight of 200 g, it swings from left to right at an angle of 120 degree(total), 40 cycle/min , 300 times minimum. The cord shall be conductible. 输出线悬挂 200克重量, 以 120度、40周/分钟左右摇摆最小 300次, 输出线无异常。

4. Reliability/可靠度

The design and construction of this power supply shall exhibit a minimum Mean Time Between Failure(MTBF) of 50,000 hours full rated load operation 25°C. 适配器的设计和结构在环境温度为 25°C的情况下, 带额定负载, 可至少工作时间。

5. Insulation System /绝缘等级

CLASS B(130°C)

6. Environment Requirements /环境要求

6.1 Operating Temperature Range /工作温度范围: -20°C ~ +40°C

6.2 Operating Humidity Range /工作湿度范围: 30% ~ 85%R.H

6.3 Storage Temperature Range /储藏温度范围: -20°C ~ +85 °C

7. DC Resistance /DC电阻

Under Ambient Temperature 25±5°C.

7.1 Primary /初级: ± 20% Ω(ref) 7.2 Secondary /次级: ± 20% Ω(ref)

8. Production Tests /生产线检查

8.1 Full Test Procedures for Each Product /全检测试项目:

- ☒Primary exciting current ☐Core loss ☒Output voltage
☒Input current and power at rated load ☒Noise
☒Polarity of output plug ☒Hi-pot test ☒Appearance ☒Ripple voltage

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8.2 Spot Check Procedures/抽检测试项目:

☒ Humidity operating at rated load ☐ D.C. Resistance

☒ Insulation test ☒ Life test ☒ Drop test

9. Safety Standards /安规标准

The product has designed / approved by the following safety standards:

☐ UL60950 ☐ IEC/EN60950 ☐ AS/NZS60950 ☐ J60950 ☐ K60950 ☐ GB4943
☐ UL60065 ☐ IEC/EN60065 ☐ AS/NZS60065 ☐ J60065 ☐ K60065 ☐ GB8898
☐ UL60335 ☐ IEC/EN60335 ☐ AS/NZS60335 ☐ J60335
☐ UL1310 ☒ IEC/EN61558 ☐ AS/NZS61558 ☐ J61558
☐ IEC/EN61347

10. EMI/EMS Standards /电磁兼容标准**10.1 EMI Standards/ EMI标准**

☒ EN55022:2010+AC:2011(IT) ☐ EN55013:2001+ A1:2003+ A:2006(AV)
☐ FCC Part 15 Class B:2014 & ANSI C63.4:2009(USA)
☐ GB9254-2008(IT) ☐ GB13837(AV)
☐ J55022(IT) ☐ J55013(AV) ☐ CISPR 32/22/射频干扰
☐ IEC/EN61547(LED)

10.2 EMS Standards/ EMS标准

☒ EN55024:2010(IT&AV) ☐ EN62493:2010(EMF) ☐ GB17625.1-2012/谐波电流限值
☒ IEC61000-4-2/ESD静电放电 ☒ IEC61000-4-3/辐射干扰
☒ IEC61000-4-4/EFT电快速瞬变脉冲群 ☒ IEC61000-4-5/雷击surge测试
☒ IEC61000-4-6/CS传导性干扰 ☐ IEC61000-4-8/电源频率磁场耐受检测
☐ IEC61000-4-11/电压跌落及中断
☐ EN61000-3-2/谐波电流
☐ EN 61000-3-3:2013/电压波动和闪烁

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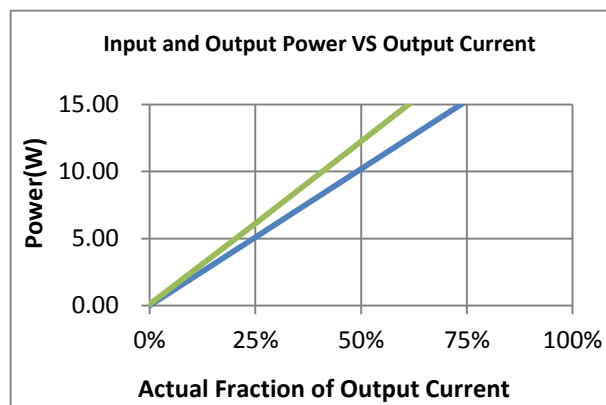
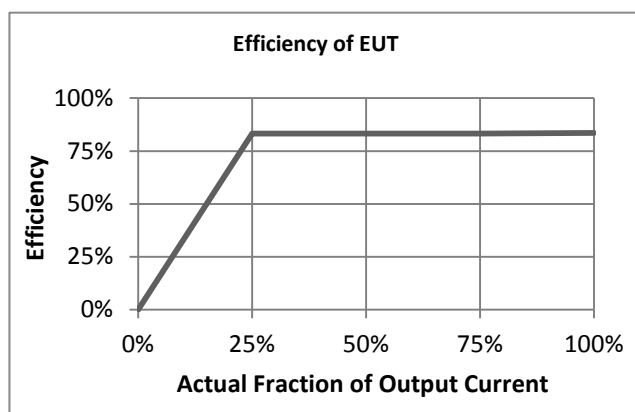
11. Efficiency Level Standard and Test Report/节能标准和测试报告

☒ N/A ☐ IV ☐ V ☐ VI Efficiency Test Report 节能测试报告

☐ GEMS ☐ CEC ☐ ErP ☐ DoE VI 6 (US) ☐ CoC V5 (EU)

Item 项目	Standard No-load Power 标准空载损耗(W)	Standard Average Efficiency 标准平均效率%
Standard 标准		

	No Load	Active power values					No load Power 空载功率 W	Average Efficiency 平均效率%
Percent of nameplate current 负载比例	0%	25%	50%	75%	100%			
Output Current 输出电流								
Output voltage 输出电压								
Output power 输出功率 W 次								
AC input power 输入功率 W 初								
Efficiency% 效率%								



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Checked by:

吴静雯

Prepared by:

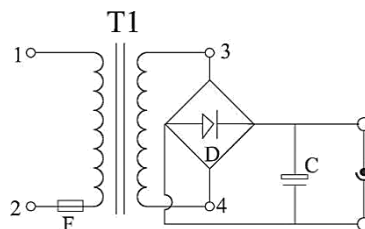
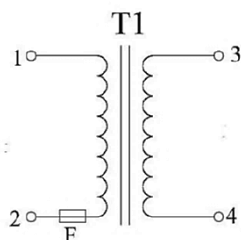
王苑

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12. Circuit Diagram /电路图



☒ AC / AC 交流

☐ AC / DC 直流

No.	Symbol	Part Name	Specification
1	T1	Transformer	EI-41
2	F	Thermal-Link	125°C 250VAC 2A
3	D	Diode	
4	C	Capacitor	
5			
6			

13. Outline Characteristics /外观特性

13.1 Dimension/尺寸: 6.3*5.1*8cm (LxWxH)

13.2 Net Weight/净重: 0.322 kgs (ref.)

13.3 AC Inlet/输入插头: ☒ 2P EU ☐ 2P US ☐ 3P UK

13.4 Power Cable Spec/输入电源线: N/A

13.5 Case Material/外壳材质: ABS or PC or PC+ABS, 94V-0

13.6 Product Color/颜色: Black

13.7 Output Cord & Length/输出线及长度: UL 2464 24AWG 180CM

13.8 DC Connector Size & Shape/DC头尺寸及外形: 2.1x5.5x12mm

☒ Straight ☐ L-type ☐ Fork Type

13.9 DC Polarity/极性: ☐ Center + ☐ Center-

13.10 LED color/指示灯颜色: N/A

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14. Label Diagram /铭牌图

☐ Laser engraving ☒ PVC sticker ☒ Serial code 128

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15. Mechanical Outline Photograph /外观示意图

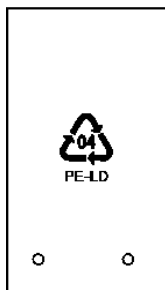
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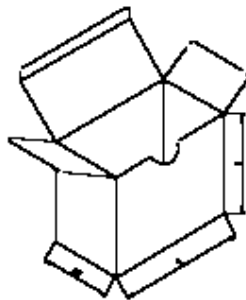
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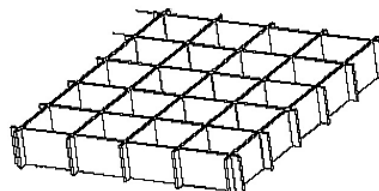
16. Package Drawing /包装示意图



☒: PE Bag



☒: White Box



☐: Blade Cardboard.

No.	Item Name	Density/Spec	Dimension (LxWxH cm)
1	PE bag 袋	N/A	16*12
2	White box 小白盒	400g/cm3	8.5*5.5*8



Name	Material	Measurement (LxWxH)	Q'ty	Shipping Mark	Part No. On Carton
Outer Carton	K=K	42x26x23cm	45Pcs	KRECO	KRE-0900950L

17. Certificates /认证证书

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