

SPECIFICATION FOR APPROVAL

客户承认书

Customer ID 客户: 141141-UKB P/N No.: KRE-0900530L Model No. 型号: KRE-0900530L
 Sample Date 日期: 2017-07-03 Design No. 设计流水号: 170616-141141-140012-B3



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-0900530L 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

TEL: +86-760-22582166

FAX: +86-760-87600816

Http://www.kreco.com.cn

Email: sales@kreco.com.cn



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

SPECIFICATION FOR APPROVAL		客户承认书	
Customer ID 客户:	141141-UKB	P/N No. :KRE-0900530L	Model No. 型号: KRE-0900530L
Sample Date 日期:	2017-07-03	Design No. 设计流水号:170616-141141-140012-B3	

TABLE OF CONTENTS/目录

0. Reversion List /变更履历表	2
1. Electrical Characteristics /电子性能	3
2. Safety Test /安全测试	3
3. Mechanical Characteristics /机械特性	4
4. Reliability/可靠度.....	5
5. Insulation System /绝缘等级	5
6. Environment Requirements /环境要求.....	5
7. DC Resistance /DC 电阻.....	5
8. Production Tests /生产线检查	5
9. Safety Standards /安规标准	6
10. EMI/EMS Standards /电磁兼容标准	6
11. Efficiency Level Standard and Test Report/节能标准和测试报告	7
12. Circuit Diagram /电路图.....	8
13. Outline Characteristics /外观特性.....	8
14. Label Diagram /铭牌图	9
15. Mechanical Outline Photograph /外观示意图.....	10
16. Package Drawing /包装示意图	11
17. Certificates /认证证书.....	11

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			

	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

SPECIFICATION FOR APPROVAL		客户承认书	
Customer ID 客户:	141141-UKB	P/N No. :KRE-0900530L	Model No. 型号: KRE-0900530L
Sample Date 日期:	2017-07-03	Design No. 设计流水号:	170616-141141-140012-B3

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)	40mA 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	1200mA
空载电压 No Load Voltage	12.2V ±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℃.

 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

SPECIFICATION FOR APPROVAL

客户承认书

Customer ID 客户: 141141-UKB P/N No.: KRE-0900530L Model No. 型号: KRE-0900530L
Sample Date 日期: 2017-07-03 Design No. 设计流水号: 170616-141141-140012-B3

2.4 Overload Test /过载测试:

In an ambient temperature of 25°C 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°C 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°C, 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°C、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°C, 90~95% R.H. for 48 hours, after taken out from oven. Shall meet 2.1.

在 40±2°C, 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。

 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

SPECIFICATION FOR APPROVAL

客户承认书

Customer ID 客户: 141141-UKB P/N No.: KRE-0900530L Model No. 型号: KRE-0900530L
Sample Date 日期: 2017-07-03 Design No. 设计流水号: 170616-141141-140012-B3

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

 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

SPECIFICATION FOR APPROVAL**客户承认书**

Customer ID 客户: 141141-UKB P/N No.: KRE-0900530L Model No. 型号: KRE-0900530L
Sample Date 日期: 2017-07-03 Design No. 设计流水号: 170616-141141-140012-B3

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

 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

SPECIFICATION FOR APPROVAL

客户承认书

Customer ID 客户:141141-UKB P/N No.:KRE-0900530L Model No. 型号: KRE-0900530L
Sample Date 日期:2017-07-03 Design No. 设计流水号:170616-141141-140012-B3

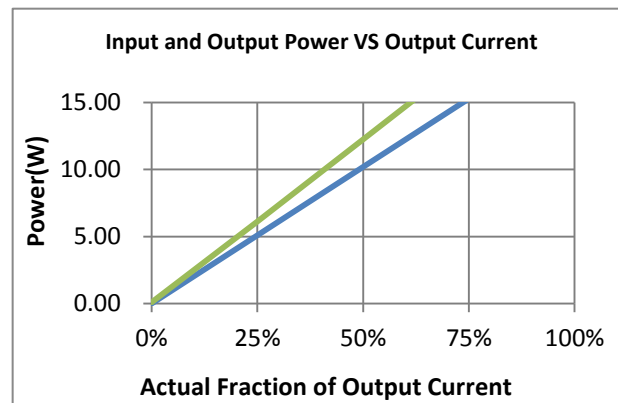
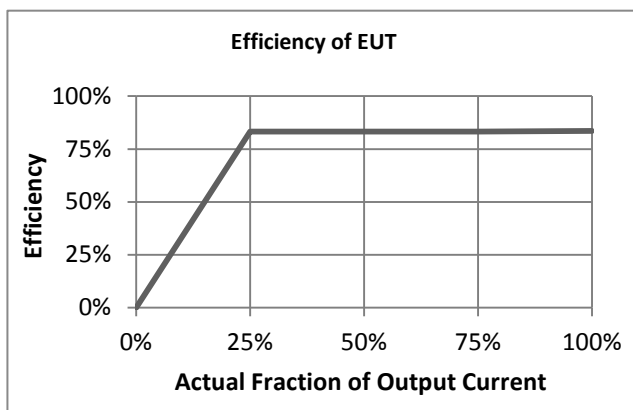
11. Efficiency Level Standard and Test Report/节能标准和测试报告

☒ 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					
Percent of nameplate current 负载比例	0%	25%	50%	75%	100%	No load Power 空载功率 W	Average Efficiency 平均效率%
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%							



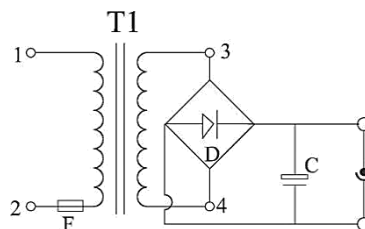
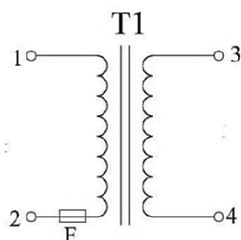
 KINGRONG ENTERPRISE LTD. 景荣企业有限公司	Approved by:	Checked by:	Prepared by:
	黄秀红	吴静雯	王苑

SPECIFICATION FOR APPROVAL

客户承认书

Customer ID 客户: 141141-UKB P/N No.: KRE-0900530L Model No. 型号: KRE-0900530L
Sample Date 日期: 2017-07-03 Design No. 设计流水号: 170616-141141-140012-B3

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: 6.4*5.1*7.9cm (LxWxH)

13.2 Net Weight/净重: 0.223 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

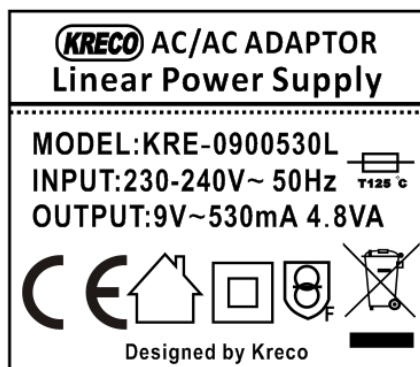
13.9 DC Polarity/极性: ☐ Center + ☐ Center-

13.10 LED color/指示灯颜色: N/A

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

SPECIFICATION FOR APPROVAL**客户承认书**

Customer ID 客户:141141-UKB P/N No.:KRE-0900530L Model No. 型号: KRE-0900530L
Sample Date 日期:2017-07-03 Design No. 设计流水号:170616-141141-140012-B3

14. Label Diagram /铭牌图

☐ Laser engraving ☒ PVC sticker ☒ Serial code 128

 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

SPECIFICATION FOR APPROVAL**客户承认书**

Customer ID 客户:141141-UKB P/N No.:KRE-0900530L Model No. 型号: KRE-0900530L
Sample Date 日期:2017-07-03 Design No. 设计流水号:170616-141141-140012-B3

15. Mechanical Outline Photograph /外观示意图

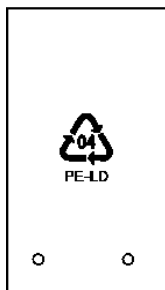
 KINGRONG ENTERPRISE LTD. 景荣企业有限公司	Approved by:	Checked by:	Prepared by:
	黄秀红	吴静雯	王苑

SPECIFICATION FOR APPROVAL

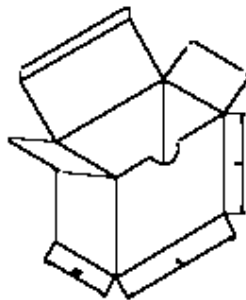
客户承认书

Customer ID 客户:141141-UKB P/N No.:KRE-0900530L Model No. 型号: KRE-0900530L
Sample Date 日期:2017-07-03 Design No. 设计流水号:170616-141141-140012-B3

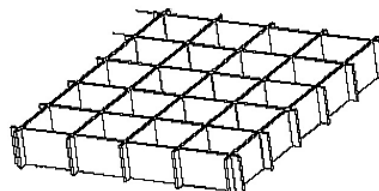
16. Package Drawing /包装示意图



☒: 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	8.8*5.5*8



Name	Material	Measurement (LxWxH)	Q'ty	Shipping Mark	Part No. On Carton
Outer Carton	K=K	42x26x23cm	60Pcs	KRECO	KRE-0900530L

17. Certificates /认证证书

 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