

SPECIFICATION FOR APPROVAL		客户承认书
Customer/客户: YAU-151528	Model No./产品型号: KRE-0503100C	File No./文件号: 150881
Part No./料号: KRE-0503100C	Design No./设计号: KR15668	Date/日期: 2015-5-12



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/客户: YAU-151528

DESCRIPTION/概述: Car Charger

CUSTOMER P.N./客户料号: _____

MODEL NO./产品型号: KRE-0503100C REV./版本: 1.0

DESIGNED NO./设计号: KR15667 ROHS: Yes 符合

SAMPLE DATE/送样日期: _____

CUSTOMER AUTHORIZED SIGNATURE/客户承认签核			

Please must return to us one copy of "SPECIFICATION FOR APPROVAL" with you approved signature, volume production will be made as per sampl.

按所送样品生产, 客户确认签字, 盖章后请回传一份承认书给我司。

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	黄秀红	王海	杨娜

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1. Application/适用范围

The Specification applies to/本规格适用于中山市景荣电子有限公司 5V ,

3.1A Car Charger /车充 of Kreco.

2. Reference to Standard/引用标准

EN50498:2010

CCC (GB4943-2001/GB9254-1998/GB17625.1-2003)

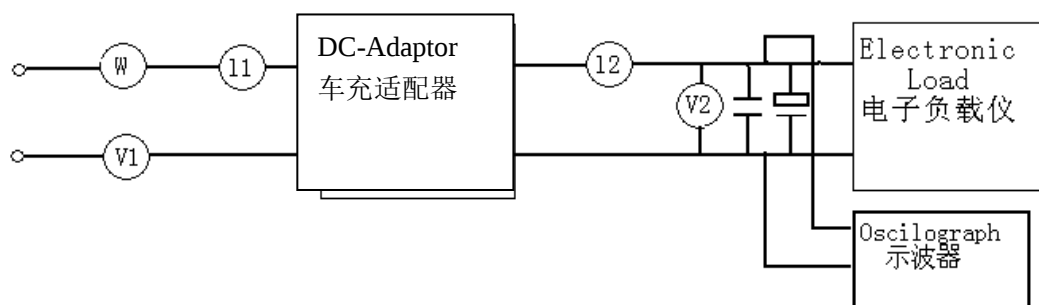
YD/1032-2001

3. Electrical Characteristics/电气特性

Circuit Testing/测试电路

Test as below circuit in general.

无特殊规定的情况下依照下面的电路进行测试.



4. Input Characteristics/输入特性

4.1 Rated Input Voltage/额定输入电压

Rated input voltage/额定输入电压 12V

4.2 Range input Voltage/输入电压范围

Range input voltage/输入电压范围直流 4.75VDC~28VDC

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4.3 DC Input Current/DC 输入电流

Input current **1.2A (max)** when full load 12-24V.

12V-24V 满载时输入电流 **1.2A (max)**

4.4 Input Peak Current/峰值输入电流

Maximum input peak current less than **3.1A (when loading)** when power on.

电源启动时最大峰值输入电流小于 **3.1A(负载时)**

4.5 Efficiency/效率

75% and greater the efficiency when working on **12V-24VDC** input voltage & output max loading.

在输入电压 **12V-24VDC**, 输出最大负荷下, 充电器工作效率大于 75%

5. Output Characteristics/输出特性

5.1 Output Voltage/输出电压

No-load output voltage/空载输出电压: **4.95V ~ 5.5V**

Full load output voltage/满载输出电压: **4.75V ~ 5.25V**

5.2 Rated Output Current/额定输出电流

Rated output current **3.1A Max** on CC.

在 CC 模式下额定输出电流 **3.1A Max**

5.3 LED Indicate Color/LED 指示: **Red/红色**

5.4 Output Ripple, Noise/输出纹波、噪音

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Ripple less than 100mV p-p when tested on parallel connection of 0.1 μ F & 22 μ F on output, and oscilloscope bandwidth restrict on 20MHz.

输出端并 0.1 μ F 与 22 μ F 电容, 限制示波器带宽 20MHz 时, 测得纹波小于 100mV p-p

5.5 Overcurrent Protection/过流保护

Protection on when output current exceed 2.9~3.1A.

输出电流超过 2.9~3.1A 时, 充电器保护.

5.6 Over-Temperature Protection/过温保护

When output over load, temperature of main component higher than 125 $^{\circ}$ C, circuit protection on; back to normal output status when temperature of main component cool down to 50 $^{\circ}$ C or lower.

输出过负载时, 主要元件温度超过 125 $^{\circ}$ C 保护 (外壳温度 $\geq$ 60 $^{\circ}$ C) 电路, 主要元件温度降到 50 $^{\circ}$ C 以下恢复正常输出.

6. Reliability Project/可靠性项目

6.1 Temperature Rise/温升

The temperature of shell rise within 55 $^{\circ}$ C, when apply 12V~24V on input, 2.1A loaded on output, under the 25 $^{\circ}$ C room temperature.

在常温 25 $^{\circ}$ C 下输入端施加 12V~24V 电压, 输出 2.1A 负荷的状态下, 外壳表面温升 55 $^{\circ}$ C 以下

6.2 Continuons Operating Hours/连续工作时间

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In the rated input voltage and output current under the condition of 2.1A, 96 hours of continuous work, no damage occurred.

在输入额定电压和输出电流 2.1A 的条件下, 连续工作 96 小时, 不损坏充电器。

6.3 Mean Free Error Time/平均无故障时间

5000 hours of Mean free error time in 90% cases, when it works under the condition of normal input on 25°C, 80% output max load.

该充电器在 25°C 正常输入时, 输出为 80%最大负载, 90%情况下其平均无故障时间为 5000 小时

6.4 EMI Standard/EMI 标准

Designed to meet CE

(EN50498:2010 and YD1032-2001)

EN55025:2006+A1:2007+A2:2010 Class B

CQC: GB9254-2008

7. Environmental Requirement/环境要求

7.1 Operating Temperature/工作温度: 0° C TO 40° C

7.2 Storage Temperature/储藏温度: -20° C TO +70° C

7.3 Operating Humidity/工作湿度: 35~85% RH.

7.4 Storage Humidity/储藏湿度: 5 ~ 95% RH.

8. Mechanical Requirement/机械要求

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8.1 Weight/重量: 42.7g max

8.2 Input Plug Type/输入插头类型: 车充标准点烟头

8.3 Output Cable & Connector Type/输出线材与接口类型: USB

8.4 Drop Test/跌落试验

Dropped 6 times from 120cm high, dropped down in any director on hard floor, compared with before and after test, no mechanical damage & electrical performance damage.

制品从 120cm 处落下 6 次, 落下的方向任意, 落在硬地板上, 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

8.9 Plug Test/插拔实验

10 times normal plug in & pull out between the plug and connector, with no more than 30N dynamics inserting & 10-50N dynamics pulling; Then 3000 times continually plug in & pull out, mild damage of appearance is accepted, and still good conduction performance.

插头与连接器经正常插拔 10 次, 插头每次插入力度不大于 30N, 拔出在 10-50N 之间; 后持续拔插 3000 次, 外观允许有轻度损伤, 但导通性能良好

9.0 Appearance/外观

After sight check, no abnormal appearance, no obvious scratch, rag or other mechanical damage, exposed metal parts without rust. Other limits confirmed according to the sample.

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目视检查, 无外观异常, 表面无明显划痕、毛刺及其它机械损伤, 外露金属部分无锈。其它限度根据样品确认。

10. Lable/产品铭牌图

INPUT:DC 12-24V
 OUTPUT1:DC5V $\overline{\text{---}}$ 1A
 OUTPUT2:DC5V $\overline{\text{---}}$ 2.1A

11. A. Image/产品外观图



B. Color/产品颜色: (1)

1. Gray 灰色 2. Blue 蓝色 3. Red 红色

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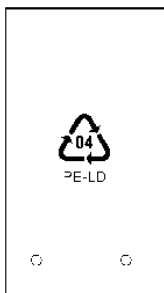
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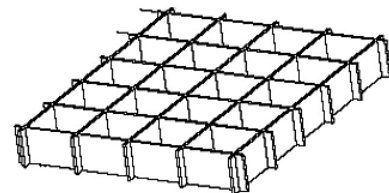
12. Package Drawing /包装示意图



NO. 1 PE Bag

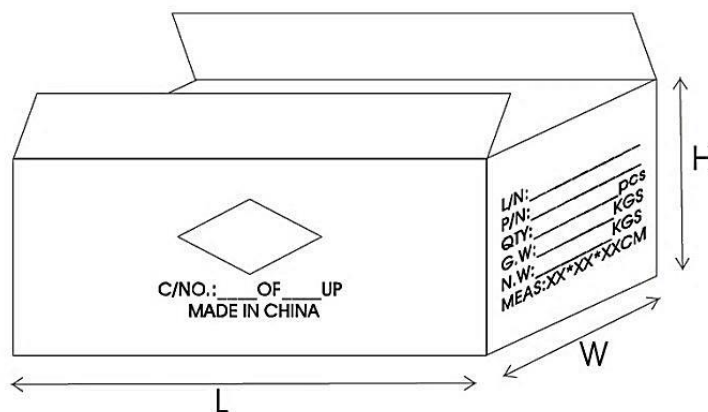


NO. 2 White Box



NO. 3 Blade cardboard.

Packing NO.	Density	Dimensions (LxWxH)	OPTION
2	400g/cm3	157*80*33mm	✓
1+3	N/A	N/A	



Outer Carton

Part Name	Material	Dimensions (LxWxH mm)	Q'ty	Shipping Mark
Outer Carton	A=A	470*350*240mm	59Pcs	KRECO

13. Certificates /认证证书

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