

客户名称/CUSTOMER:
客户代码/CUSTOMER CODE:

承 认 书

SPECIFICATION FOR APPROVAL

产 品 名 称 DESCRIPTION: LED EMERGENCY CONVERTER
客 户 型 号 CUSTOMER MODEL: _____
客 户 编 号 CUSTOMER CODE: _____
承制方 型号 MANUFACTURER MODEL: TR503C060A (10-60V/4W)
版 本 EDITION: V1.0
日 期 DATE: 2016/12/22

使用方确认 CUSTOMER APPROVED

采购部 PURCHING	研发部 R/D	品质部 QUALITY
公司签署 COMPANY SIGN		

承制方确认 MANUFACTURER

拟制 DRAWING	审核 CHECKED	批准 RATIFY
公司签署 COMPANY SIGN		

承制方: 深圳市景海电源科技有限公司

MANUFACTURER: SHENZHEN JINGHAI POWER TECH CO., LTD

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一、product standard （产品规格）

1、overview （概述）

TR503C060A is our company specially designed for the development of LED lights a full voltage range input, separate From converter power, the power adopt new circuit design, make the product to provide A high power factor, high efficiency, high reliability, wide range voltage output, low noise, the energy conservation Environmental protection, long life, etc

TR503C060A 是本公司专为 LED 灯开发的一款全电压范围输入, 隔离逆变电源, 本电源采用全新的电路设计, 使产品具有高功率因素、高效率、高可靠性、宽范围电压输出、低噪音、节能环保、长寿命等特点。

2、applicable scope （适用范围）

This product is suitable for LED panel , downlight and so on. output voltage between the power 6v-60v of LED lights.

本产品适用于面板灯, 射灯等, 输出电压介于 6-60V 的 LED 灯具。

3、electrical parameters （电气参数）

Testing project 测试项目	Testing condition 测试条件	Scope 范围	Unit 单位	Remark 备注
Input voltage range 输入电压		AC90~264	V	
Normal voltage range 标称输入		AC100~240	V	
Operating frequency 工作频率	常规	47~63	Hz	
Input current 输入电流	Vin=AC110V	≤0.02	A	
Input power 输入功率	Vin=AC110V	≤5	W	
Input Fuse 输入保险	T3.2A/250Vac		A	
Power factor 功率因素	Vin=AC110V	≥0.7		
	Vin=AC220V	≥0.65		
Efficiency 效率	Vin=AC110V	≥87%		
	Vin=AC220V	≥88%		
Battery 电池		6.4V 3000mAh		
Battery charge time 充电时间	-10 ----- 55 度	24	Hours	
Duration time 应急时间		3	Hours	
Output voltage 输出电压		DC 6-60	V	
Output current 输出电流		100	mA	±5%
Output power 应急输出功率		4	W	

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Work mode 工作模式	DC30-55V	恒流模式	mA	±5%
Compression 耐压	5mA/60s	AC1500	V	
Isolation 绝缘性能	Input To Output 输入对输出	50MΩ min	MΩ	DC500V
LED light for 适用灯串	VF=3.2V	12 串		

4、rotective value (保护性能)

4.1、Open protection: when the output when open, input normal input, the product will not damage, and open voltage can't more than ratings.

开路保护: 当输出端开路时, 输入端正常输入, 产品不会损坏, 且开路电压不会超过额定值。

4.2、Short circuit protection: if the output appears unusual, causes the product of anode and short sub, this product will start short circuit protection function, and not because this abnormality in product permanent damage.

短路保护: 如果输出端出现异常, 造成产品正负极短接, 本产品会启动短路保护功能, 不致因为此异常造成产品永久性损坏。

4.3、Overload protection: this product is the constant flow design, the LED lights in the design of the product value VF voltage range, the product output current will be constant; When LED lamp of the design of value over VF voltage range, the product will enter overload protection status.

过载保护: 本产品为恒流设计, LED 灯的 VF 值在产品的设计电压范围内时, 此产品的输出电流会恒定不变; 当 LED 灯的 VF 值超过所设计的电压范围时, 产品会进入过载保护状态。

4.3.1、Output voltage is too low, the power supply will enter frequent start and shut off, at this time will frequently LED twinkle.

输出端电压过低, 电源会进入频繁启动和关断, 此时 LED 灯会频繁闪烁。

4.3.2、The output voltage of the too high, this product into the constant pressure to protect state, this time the LED lights on the luminous intensity pronounced weakening, current is unable to achieve the ratings.

输出端电压过高, 本产品进入恒压保护状态, 此时 LED 灯的发光强度明显变弱, 电流无法达到额定值。

5、Dimension 物 理 尺 寸

INVERTER: 155*40*30

BATTERY PACK: 160*37*20

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二、Environmental Requirement 环境要求

This part describes the constant current drive power LED to use and storage environment.

这一部分描述了 LED 恒流驱动电源使用和存储环境。

1、Using temperature and humidity 使用温度和湿度

1.1、Using temperature range: from 0 °C to 55 °C

使用温度范围：从 0℃到 55℃

1.2、Use humidity range: from 5 RH % to 95 RH %

使用湿度范围：从 5RH%到 95RH%

2、Storage temperature and humidity 存储温度和湿度

2.1、Storage temperature range: from -20 °C to 80 °C

存储温度范围：从-20℃到 80℃

2.2、Storage humidity range: from 5 RH % to 95 RH %

存储湿度范围：从 5RH%到 95RH%

三、认证规范

1、Safety （安全规格）

The power supply shall compliance with the following Criterion:

电源安全性满足下列标准

- 1) *EN61347-2-7,
- 2) *TUVEN61347-1

2、EMC （电磁兼容性）

2.1 EMI （电磁干扰）

The power supply shall compliance with the following Criterion:

电源电磁干扰满足下列规则：

2.1.1 Conduction Emission : （传导干扰度）

- 1) *EN55015
- 2) *GB17743

2.1.2 Radiated Emission : （辐射干扰度）

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1) *EN55015

2) *GB17743

2.2 EMS (电磁抗扰)

The power supply shall compliance with the following Criterion:

电源电磁抗扰满足下列规则:

2.2.1 EMS (电磁抗扰)

1) *EN61547

2) *GB18595

2.2.2 harmonic (谐波)

1) *EN61000-3-2

2) *GB17625.1

2.2.3 Surge (闪电)

1) *EN61000-3-3

2) *GB17625.2

2.2.4 ESD(静电抗扰度)

1) *EN61000-4-2

2) *GB17626-2

2.2.5 EFT(脉冲群抗扰度)

1) *EN61000-4-4

2) *GB17626-4

2.2.6 Ssurge(浪涌雷击测试)

1) *EN61000-4-5

2) *GB17626-5

2.2.7 电压跌落与中断

1) *EN61000-4-11

2) *GB17626-11

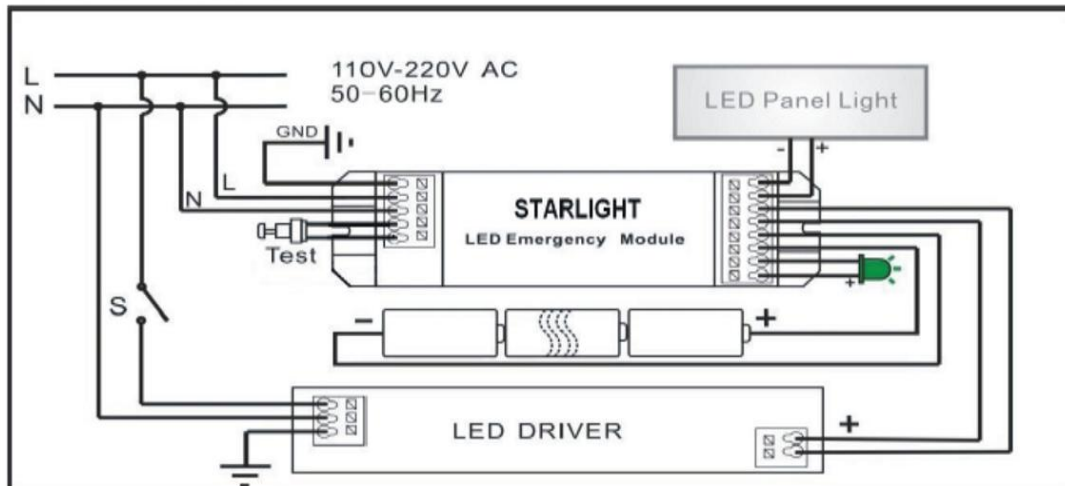
2.2.6 耐压测试 爬电距离 电气间隙

1) *IEC/EN60968-1.2004+A1:2006

2) *IEC/EN60968-2-1:1989

四、Product testing structure (产品测试接线图)

1、testing schematic diagram 测试原理图:



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3、product precautions 产品使用注意事项:

3.1, in the device the power supply, please pay attention to the correct installation of input, output, confirms to the rear can electrify.

3.2, in order to avoid LED burn out, please take good DC output terminal open again power supply.

3.3, in the use of the products please pay attention to high pressure safety, and completes the shock measures to avoid when installation and metal case short circuit, and don't force or throw the power on extrusion of components, or in the set of casing please don't use too much about the long time at a point in heating.

3.4, power in the first time when a current good device, such as a bright lights or signal, please promptly ac power supply, and check input exchange or the output is bad contacts or overload or short circuit and remove the faults can, if there is a bright or dim light, please promptly ac power supply, and inspection of the parameters are needed to get LED anastomosis and remove the faults can.

3.5, good electrical connections in the device, LED light but a flickering or WeiLiang, please check the power supply output terminal for contact undesirable or appears light load. Overload.

3.6, as in use process in time if you have any questions please contact with our company technical support, and feedback unhealthy phenomenon, my company will have professional technical staff of the service you.

3.1、在装置电源时，请注意输入、输出端的正确安装，确认无误后方可通电。

3.2、为了避免 LED 烧坏，请先接好 DC 输出端再开电源。

3.3、在使用本产品时请注意高压安全，并做好防电击措施，安装时避免与金属外壳短路，同时不要强行挤压或扳动本电源上的元器件，或在套套管时请不要用过高的风筒长时间在一个点上加温。

3.4、电源在第一次装置好通电时，如出现灯不亮或灯闪时，请及时切断交流供电，并检查输入交流或输出端是否接触不良或过载或短路，排除故障即可，如出现灯过亮或暗淡时，请及时切断交流供电，并检验所接用的 LED 所需参数是否吻合，排除故障即可。

3.5、在装置好电气连接后，LED 灯亮但有闪烁或微亮，请检查电源输出端有无接触不良或出现轻载. 过载。

3.6、如在使用过程中如有疑问请及时与本公司技术支持联系，同时反馈不良现象，我公司将有专业的技术人员全程为您服务。

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