

客户承认书

SPECIFICATION FOR APPROVAL

CUSTOMER/客户: _____

CUSTOMER P. N. /客户物料号: _____

MODEL NO. /产品型号: MSL-T0700IC143.0-100B

MODEL OF CERTIFICATE/认证型号: EUC-100S070ST-8794

PRODUCT NO. /产品编号: R8794-NO

SAMPLE DATE/送样日期: _____

CUSTOMER AUTHORIZED SIGNATURE/客户承认签核

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Please return to us one copy of “SPECIFICATION FOR APPROVAL” with your approved signature. /客户确认签字，盖章后请回传一份承认书给我司.

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E. C. LIST/变更履历表

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1. SCOPE/简述

The document detail the electrical, mechanical and environmental specifications of a 100W constant current LED driver. The LED driver shall meet the RoHS requirement.

此份资料详细描述了一款 100W LED 恒流驱动电源的电气性能, 结构性能及环境等要求. 此款电源符合 RoHS 要求.

Description/描述

- | | |
|--|--|
| <input checked="" type="checkbox"/> LED driver (With AL Case)/带铝壳型 | <input type="checkbox"/> LED driver (With Plastic Case)/带胶壳型 |
| <input type="checkbox"/> Open Frame/开放式结构 | <input type="checkbox"/> Others/其他 |

2. Input Characteristics/输入特性

2.1. Input Voltage & Frequency/输入电压与频率

The range of input voltage is from 90 to 305Vac single phase.

输入电压范围: 单相从 90 到 305Vac.

	Minimum/最小	Nominal /额定值	Maximum/最大
Input Voltage/输入电压	90Vac	100-277Vac	305Vac
Input Frequency/输入频率	47Hz	60Hz/50Hz	63Hz

2.2. Input AC Current/输入交流电流

1.5Amax. @ input 100-277Vac & Full load.

2.3. Inrush Current (cold start)/浪涌电流(冷启动)

40Amax. @ input 277Vac.

2.4. Power Factor/功率因素

0.98 min@ Nominal input 110V&100% Of Full load/额定输入 110V&100%负载

0.95 min@ Nominal input 220V&100% Of Full load /额定输入 220V&100%负载

2.5. Efficiency (Normal)/效率(额定输入)

86% min. @ (type89%) input 110Vac& Full load/在输入 110Vac 与满载时(典型效率 89%);

87% min. @ (type90.1%) input 220Vac& Full load/在输入 220Vac 与满载时(典型效率 90.1%).

3. Output Characteristics/输出特性

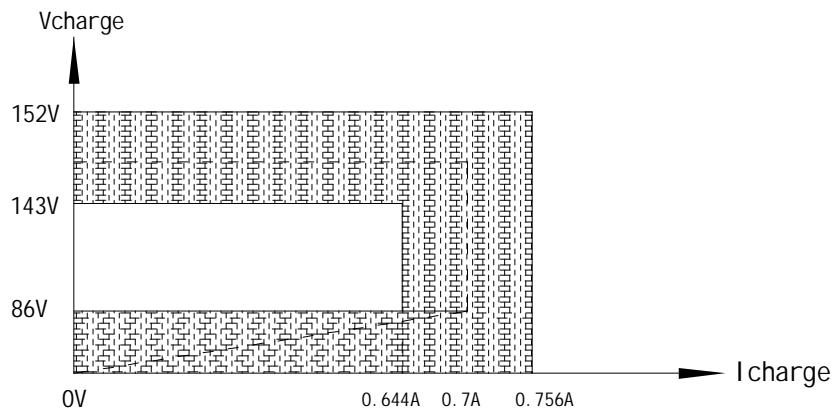
3.1. Static Output Characteristics <Vo & R+N>/静态输出

Output	Load/负载		Output Range	R+N	Remark
Rate	Min. Load	Max. Load	输出电压范围	纹波与噪声	备注
+143.0V	0.0A	0.644A	143-152V	2000mVp-p	CC 模式

Ripple & Noise: Measurement is done by 20MHz bandwidth oscilloscope and the output parallel ed a 0.1uF ceramic capacitor and a 10uF electrolysis capacitor. (test under the condition of rated input and rated output)

纹波与噪声: 量测时示波器选用 20MHz 带宽限制, 输出端要并联一颗 0.1uF 的陶瓷电容和一颗 10uF 的电解电容. (在额定输入及输出的条件下检测)

3.2. Voltage/Current Curve/恒压/恒流控制曲线



Constant Current Output Characteristics/ 恒流输出特性	Minimum/最小值	Typical/典型值	Maximum/最大值
Output Current Range /输出电流范围	0.644A	0.7A	0.756A
Output Voltage Range/输出电压范围	86V	/	143V

3.3. Turn - on Delay Time/开机延迟时间

3.0S max. @ input 100 - 277 Vac & Full Load

3.4. Hold-up Time/关机维持时间

6mS min. @ Full load &115Vac/60Hz input turn off at worst case/在最差情况关机

8.3mS min. @ Full load &230Vac/50Hz input turn off at worst case/在最差情况关机

3.5. Rise Time/上升时间

50mS max. @ Rated Load

3.6. Fall Time/下降时间

50mS max. @ Full Load

3.7. Output voltage Overshoot / Undershoot/输出电压过冲/欠冲

10% max. When the power on or off/当电源开/关机最大过冲 10%.

3.8. Output Load Transient Response/输出负载瞬态响应

output voltage within 143V-152V for load step from 25% to 75%, R/S: 1A/uS,

frequency: 100Hz

输出电压在 143V-152V 之间, 负载变化: 从 25% 到 75%, 斜率: 1A/uS, 频率: 100Hz.

4. Protection Requirements/保护要求

4.1. Short Circuit Protection/短路保护

The input power shall decrease when the output rail 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

4.2. Over Voltage Protection/过压保护

When the output voltage is over 214.5V the product is protected such as hiccup or when it is at the highest point of output voltage the product would not be hurted when the fault is excluded or is start working again the power supply is working normally.

当输出电压超过 214.5V 时, 产品进入保护状态, 如打嗝或钳在某输出最高电压状态, 产品不

受损伤,当故障排除或重新起机时,电源工作正常.

5. Environment Requirements/环境要求

5.1. Operating Temperature and Relative Humidity/操作温/湿度要求

-35°C to +60°C

10%RH to 100%RH

5.2. Storage Temperature and Relative Humidity/存储温/湿度要求

-40°C to +80°C

5% to 100%RH non-condensing @ Sea Level shall be low 10,000 feet/低于10,000 英尺.

5.3. Vibration/振动

10 to 300Hz sweep at a constant acceleration of 1.0G(Breadth: 3.5mm) for 1Hour for each of the perpendicular axes X, Y, Z.

扫描频率: 10 to 300Hz, 加速度: 1.0G(位移: 3.5mm), X, Y, Z 三垂直坐标轴向各振动1小时.

5.4. Waterproof grade/防水等级: IP67

6. Reliability Requirements/可靠性要求

6.1. Burn-in/煲机

The power supply shall undergo a minimum of 4 Hours burn-in test at 40°C ± 5°C under full load condition

产品至少要在 40°C ± 5°C 的环境及满载条件下煲机 4 小时

6.2. MTBF Qualification/平均间隔故障时间估算

The MTBF shall be at least 50,000hours at 25°C, Full Load and nominal input condition
平均间隔故障时间: 在 25°C 环境及额定输入与满载条件下, 至少 50,000 小时.

7. EMI /EMS Standards/EMI /EMS 标准

7.1. EMI Standards/EMI 标准

CISPR15: 2005;

EN55015: 2006+A1: 2009 ;

GB17743-2007 ; EN61547: 1995+A1: 2000.

7.2. EMS Standards/EMS 标准

EN 61000-3-2	Harmonic current emissions , class c.
EN 61000-3-3	Voltage fluctuations & flicker
EN 61000-4-2	Electrostatic Discharge(ESD): 8kV air discharge, 4kV contact discharge
EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
EN 61000-4-5	Surge Immunity Test: AC Power Line: line to line 2kV, line to earth 4kV
EN 61000-4-8	Power Frequency Magnetic Field Test
EN 61000-4-11	Voltage Dips
EN 61000-6-1	Electromagnetic compatibility (EMC)—Part 6-1:Generic standards-Immunity for residential, commercial and light-industrial environments
EN 61000-6-3	Electromagnetic compatibility (EMC)—Part 6-3:Generic standards-Emission

8. Safety Standards/安规标准

8.1 Dielectric Strength(Hi -pot)/介电耐压强度(高压)

Primary to Secondary: 3750Vac 10mA Max / 60second(3second for production)

初级对次级: 3750Vac /10mA Max / 60秒(生产时高压测试时间: 3秒)

<半成品/Intermediate goods>

Primary to Secondary: 1875Vac 10mA Max / 60second(3second for production)

初级对次级: 1875Vac /10mA Max / 60秒(生产时高压测试时间: 3秒)

<成品/Finished goods>

Primary to Earth: 1875Vac 10mA Max / 60second(3second for production)

初级对地: 1875Vac /10mA Max / 60秒(生产时高压测试时间: 3秒)

Secondary to Earth: 1875Vac 10mA Max / 60second(3second for production)

次级对地: 1875Vac /10mA Max / 60秒(生产时高压测试时间: 3秒)

8.2 Grounded Resistance/接地电阻

< 0.1Ω , 25A, 1Minute

8.3 Leakage Current/泄漏电流

0.75mA max. at input 277Vac/50Hz.

8.4 Insulation Resistance/绝缘阻抗

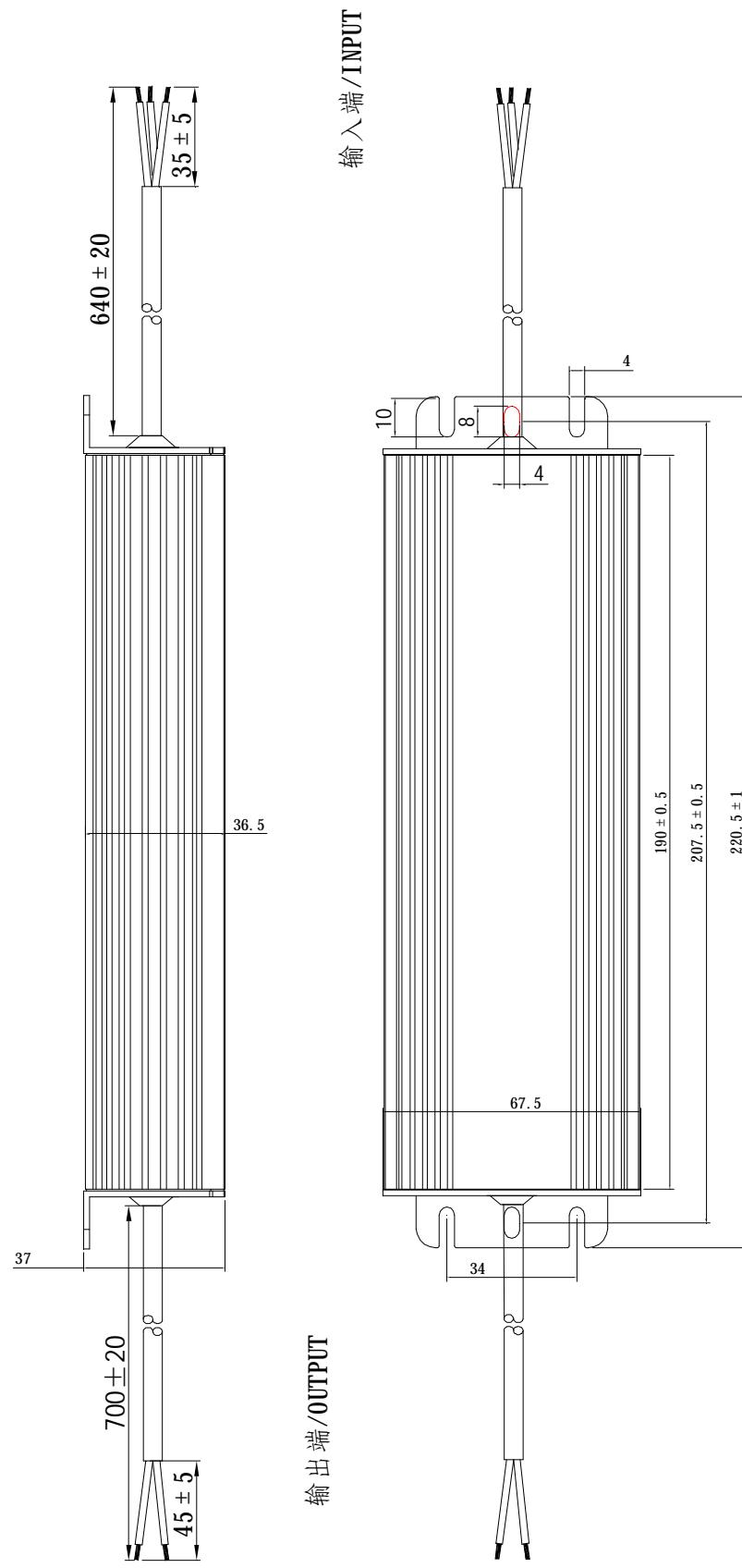
50MΩ min. at primary to secondary add 500Vdc test voltage.

在初级与次级间加 500Vdc 进行绝缘测试，最小绝缘阻抗 50MΩ .

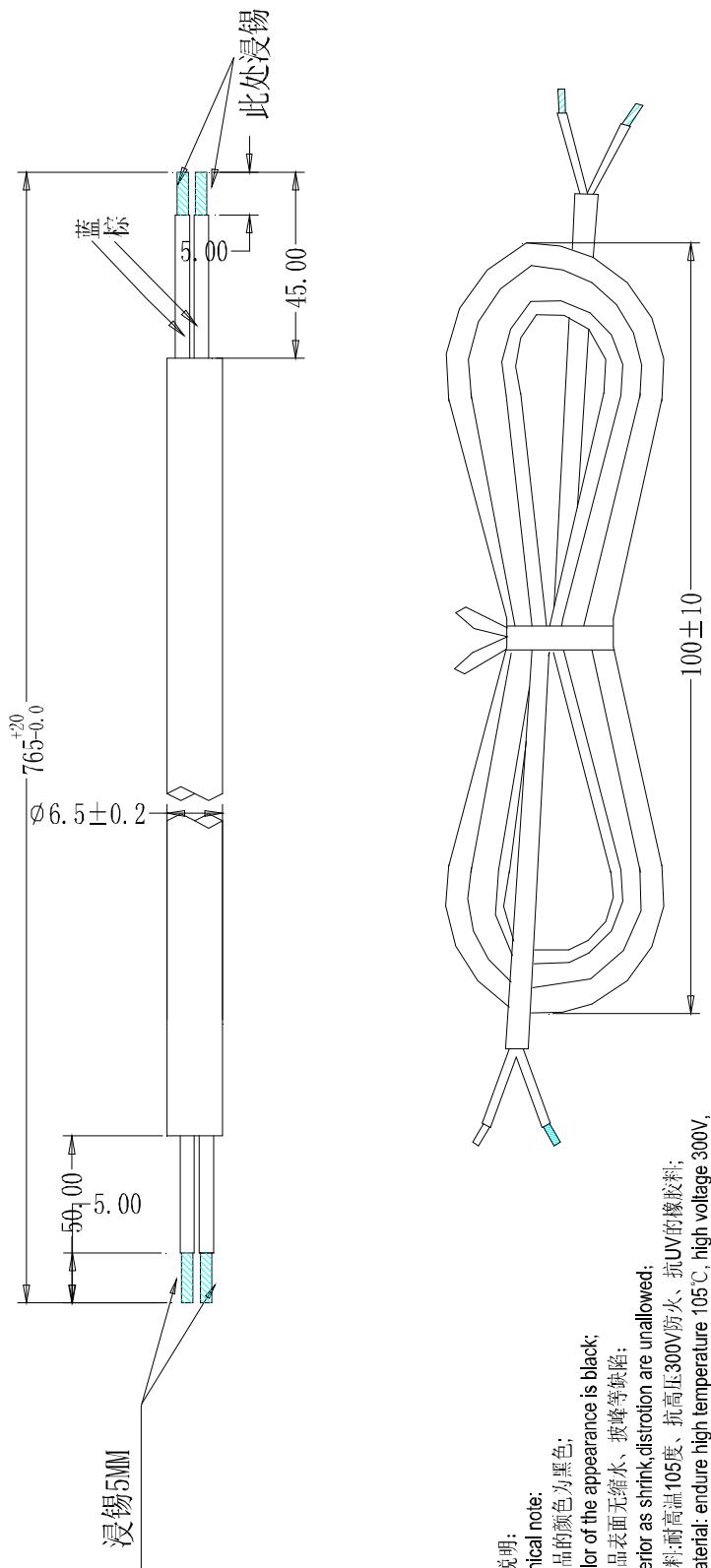
8.5 Regulatory Standards/安规标准

Type/安规	Country/国家	Standard/标准	State/状况	
CE	Europe	EN 61347-1 EN 61347-2-13	符合(meet)	

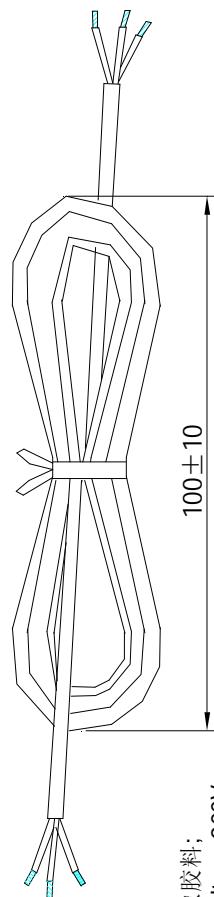
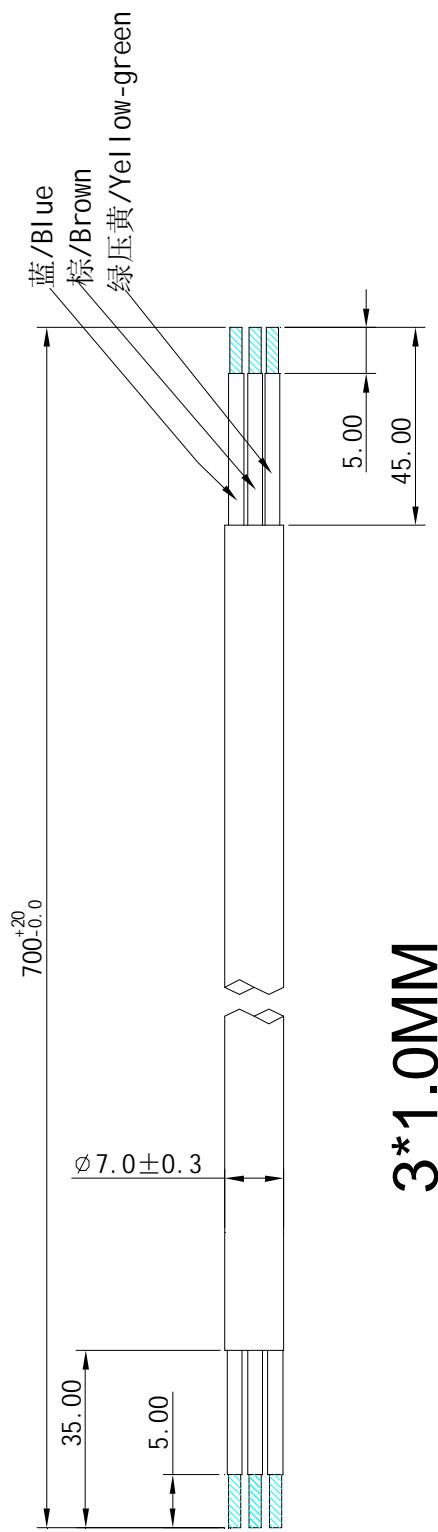
9. Mach. Outline Drawing/外观示意图



10. Output Cord/ 输出线



11. Input Cord/输入线



技术说明:

Technical note:

- 1:产品的颜色为黑色；
Color of the appearance is black;
- 2:产品表面无缩水、披峰等缺陷；
Inferior as shrink,distortion are unallowed;
- 3:材料:耐高温105度、抗高压300V/防火、抗UV的橡胶料；
Material: endure high temperature 105°C, high voltage 300V, fireproof and anti-UV;
- 4:所有芯线具为绞铜
All line core is twisted copper;
- 5:此线材必须要通过VDE认证
The wire must passing the VDE certification;
- 6.料号 /P.N.:491-030017-000

12.I/O Marking Drawing/铭牌示意图



13. BOX/彩盒



14. Package Drawing/包装示意图

