



客户承认书

SPECIFICATION FOR APPROVAL

CUSTOMER/客户: _____

CUSTOMER P.N./客户物料号: _____

MODEL OF CERTIFICATE/认证型号: _____ EUC-200S070SC

PRODUCTMODEL./产品型号: _____ MSL-T0700IC285.0-200B

PRODUCT NO./产品编号: _____ XDP0059-N0

SAMPLE DATE/送样日期: _____ 2012-07-18

CUSTOMER AUTHORIZED SIGNATURE/客户承认签核		

Please return to us one copy of "SPECIFICATION FOR APPROVAL" with you 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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Revision History/变更履历表

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1. SCOPE/简述

The document detail the electrical, mechanical and environmental specifications of a [200 W constant current](#) LED driver. The LED driver shall meet the RoHS requirement.

此份数据详细描述了一款 [200W 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



LED driver (With AL Case)/带铝壳型



LED driver (With Plastic Case)/带胶壳型



Open Frame/开放式结构



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 264Vac single phase.

输入电压范围: 单相从 90 到 264Vac.

	Minimum/最小	Nominal/额定值	Maximum/最大
Input Voltage/输入电压	90Vac	100-240Vac	264Vac
Input Frequency/输入频率	47Hz	60Hz/50Hz	63Hz

2.2. Input AC Current/输入交流电流

2.4Amax. @ input 100-240Vac & Full load.

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

75Amax. @ 230Vac, input 25°C.

2.4. Power Factor/功率因素

Typical value is 0.99@110Vac input &100% full load /额定输入 110V&100%负载

Typical value is 0.95@220Vac input V&100% full load /额定输入 220V&100%负载.

2.5. Efficiency (Normal)/效率(额定输入)

Typical value is 89% (86%min) @110Vac input & full load

在输入 110Vac 与满载时典型效率 89%(86%min);

Typical value is 92% (89%min)@220Vac input & full load

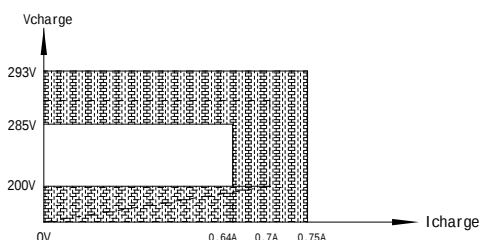
在输入 220Vac 与满载时典型效率 92%(89%min).

3. Output Characteristics/输出特性

3.1. Static Output Characteristics <Vo & R_N<4000mVp-p >/静态输出

Ripple & Noise: Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled 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



Remark/备注:

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	0.64A	0.7A	0.75A
Output Voltage Range/输出电压范围	200V	/	285V

3.3.Turn - on Delay Time/开机延迟时间

3.0S max. @ input 100-240Vac & Full load

3.4.Hold-up Time/关机保持时间

8.5mS min. @ full load & 115Vac/60Hz input turn off at worst case /在最差情况关机

10mS min. @ Full load & 230Vac/50Hz input turn off at worst case/在最差情况关机

3.5.Output voltage Overshoot /输出电压过冲

10% max. When the power on /电源开机最大过冲不超过 10%.

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 (1.2-1.4) V_{out} , the product will shutdown and enter protection status, the driver will re-start and work normally if the fault condition was eliminated.

当输出电压超过(1.2-1.4) V_{out} 时,产品将会关机进入保护状态,当故障解除后,产品将会重启正常工作。

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 +85°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 under go a minimum of 4 Hours burn-in test at $40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ under full load condition

产品至少要在 $40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ 的环境及满载条件下煲机 4 小时

6.2. LIFE Time Qualification/寿命时间估算

The Life Time shall be at least 50,000hours at 45°C , Full load and nominal input condition
寿命时间: 在 45°C 环境及额定输入与满载条件下, 至少 50,000 小时.

7. Safety& EMC Standards/安规&EMC 标准

7.1. Safety category/安规标准

Safety Category	Country	Standard
CUL	USA & Canada	UL8750, UL935, UL1012, UL1310 Class 2, CSA-C22.2 No.107.1, CSA C22.2 No.223-M91 Class 2
CE	Europe	EN 61347-1, EN 61347-2-13
CQC	China	GB 19150.1, GB 19150.14, GB 7000.1

7.2. EMI Standards/EMI 标准

EMI Standards	Country	Notes
EN 55015	Europe	Conducted emission Test & Radiated emission Test with 6 dB margin
FCC	USA	FCC Part 15 class B, ANSI C63.4:2009

7.3. EMS Standards/EMS 标准

EN 61000-3-2	Harmonic current emissions
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 61000-4-4	Electrical Fast Transient / Burst-EFT
EN 61000-4-5	Surge Immunity Test: AC Power Line: line to line 2 kV, line to earth 4 kV
EN 61000-4-6	Conducted Radio Frequency Disturbances Test-CS
EN 61000-4-8	Power Frequency Magnetic Field Test
EN 61000-4-11	Voltage Dips
EN 61547	Electromagnetic Immunity Requirements Applies To Lighting Equipment

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 10mAMax / 60second(3second for production)/Intermediary goods

初级对次级: 3750Vac /10mAMax / 60 秒(生产时高压测试时间: 3 秒)<半成品>

Primary to Secondary: 1875Vac 10mAMax / 60second(3second for production)/ Finished goods

初级对次级: 1875Vac /10mAMax / 60 秒(生产时高压测试时间: 3 秒)<成品>

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

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

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

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

8.2.Grounded Resistance/接地电阻

< 0.1 Ω ,25A,1Minute

8.3.Leakage Current/泄漏电流

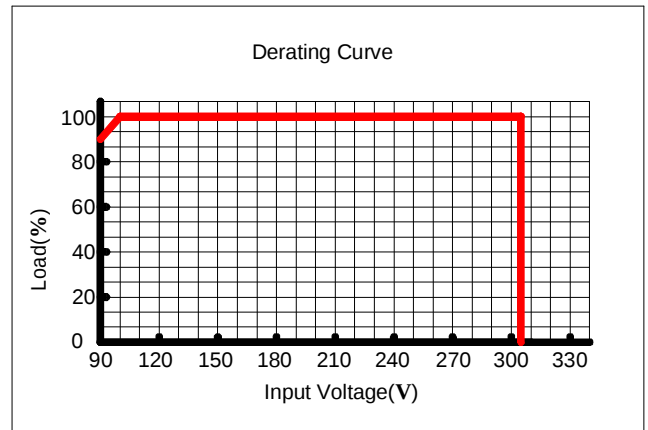
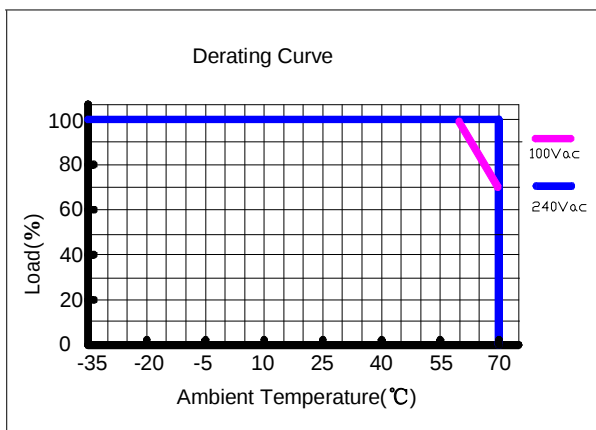
0.75mAMax. at input 240Vac/50Hz.

8.4.Insulation Resistance/绝缘阻抗

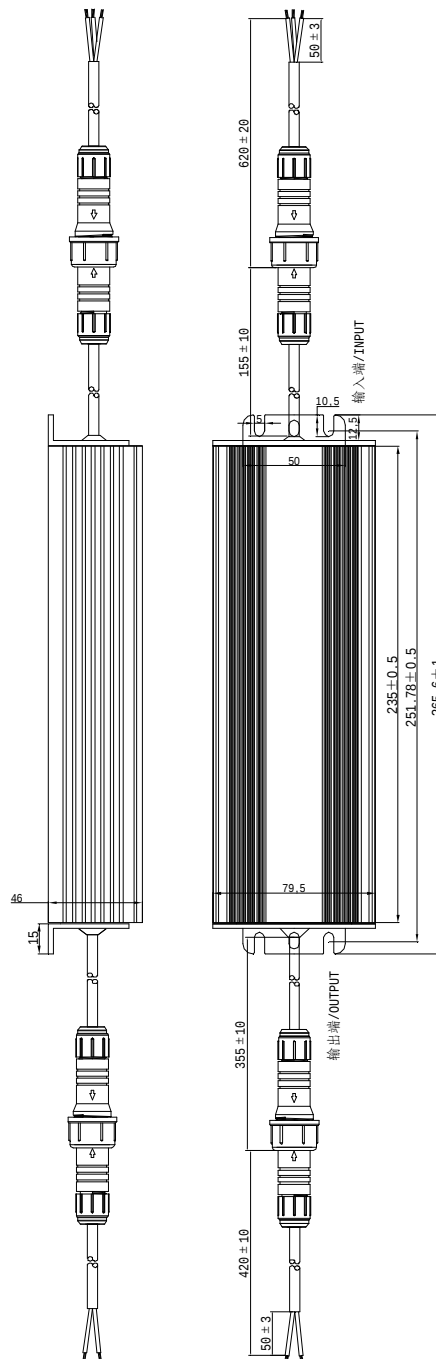
The IR shall be at least 50M Ω when apply 500Vdc between primary and secondary.

在初级与次级间加 500Vdc 进行绝缘测试, 最小绝缘阻抗 50M Ω .

9. Derating Curve/降额曲线



10. Mach. Outline Drawing/外观示意图



Dimensions/尺寸	Millimeters(Inches) 毫米(英寸)
Length/长度	265(10.43)
Width/宽度	79.5(3.12)
Height/高度	46 (1.81)

Wire/线材	Specification/规格描述
AC Input/AC 输入端	3*1.0 mm ² CCC+VDE
DC Output/DC 输出端	2*1.0 mm ² CCC+VDE
Dimming/调光端	/

11. I/O Marking Drawing/铭牌示意图

