客户承认书

SPECIFICATION FOR APPROVAL

CUSTOMER/客户：

CUSTOMER P.N./客户物料号：

PRODUCTMODEL./产品型号： MSL-T6250IC48.0-300B

PRODUCT NO./产品编号： ZGH0230-N0

SAMPLE DATE/送样日期： 2012-10-25

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

Rev. 版本	Description of Change/变更内容描述		Changed Date/日期	Notes
	Before/变更前	After/变更后		
A	Original Release（初次发行）	---	2012.10.25	---
		DC:322200142 322210154	2012.10.30	下订单前变更
	DC:322200142 322210154	DC： 322200158 322210159	2012.11.17	ECN

Table Of Content/目录

1. SCOPE/简述

The document detail the electrical, mechanical and environmental specifications of a 300W constant current LED driver. The LED driver shall meet the RoHS requirement.

此份数据详细描述了一款 300W 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 305Vac single phase.

输入电压范围：单相从 90 到 305Vac.

Items/项目	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

4.0Amax. @ input 100-277Vac & Full load.

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

75Amax. @ 230Vac, input, 25℃.

2.4.Power Factor/功率因素

Typical value is 0.98@110Vac input & full load /额定输入 110V&负载;

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

2.5.Efficiency (Normal)/效率(额定输入)

Typical value is 87% @110Vac input & full load

在输入 110Vac 与满载时典型效率 87%.

Typical value is 89% @220Vac input & full load

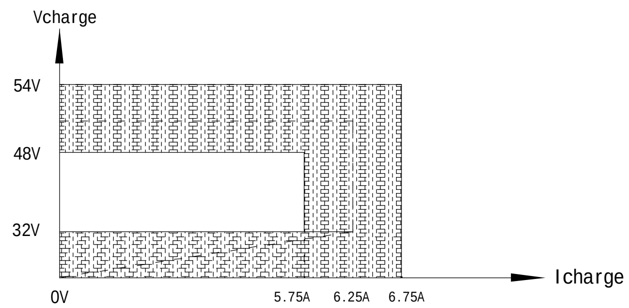
在输入 220Vac 与满载时典型效率 89%.

3. Output Characteristics/输出特性

3.1. Static Output Characteristics <Vo & R&N＜2000mVp-p >/静态输出特性

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	5.75A	6.25A	6.75A
Output Voltage Range/输出电压范围	32V	/	48V

3.3.Turn - on Delay Time/开机延迟时间

3.0S max. @ input 100-277Vac & 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)Vout 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℃ to +60℃

10%RH to 100%RH

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

-40℃ to +85℃

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℃±5℃ under full load condition

产品至少要在 40℃±5℃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℃, Full load and nominal input condition

寿命时间:在 45℃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.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

7.3.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

8. Safety Standards/安规主要测试项目

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

< 0.1Ω,25A,1Minute

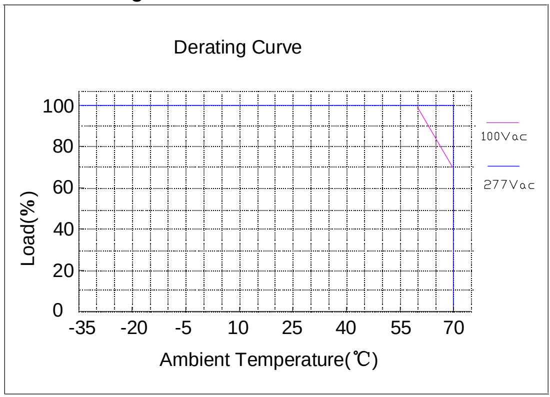
8.3.Leakage Current/泄漏电流

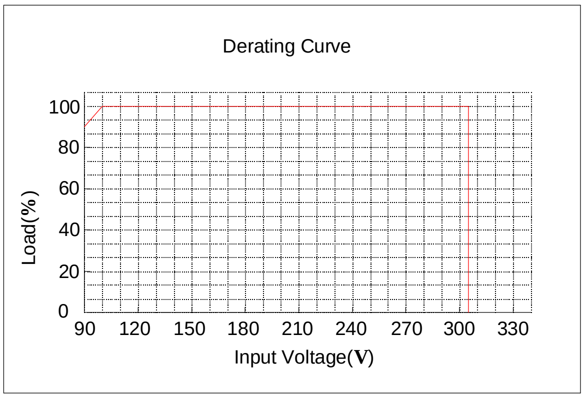
0.75mAmax. at input 230Vac/50Hz.

8.4.Insulation Resistance/绝缘阻抗

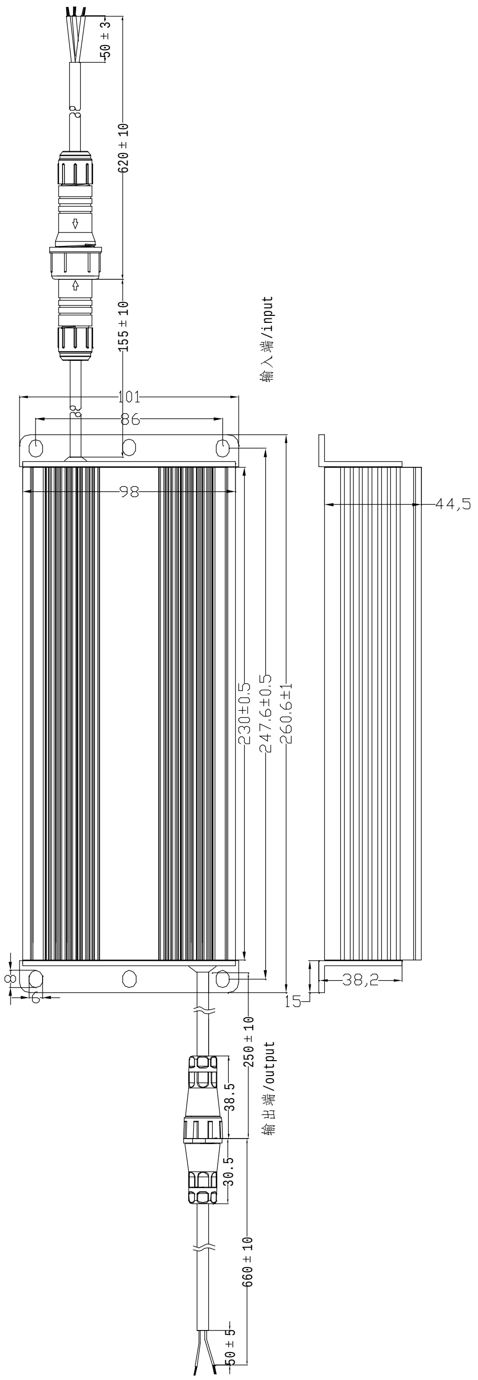
The IR shall be at least 50MΩ when apply 500Vdc between primary and secondary.
在初级与次级间加 500Vdc 进行绝缘测试，最小绝缘阻抗 50MΩ.
The IR shall be at least 50MΩ when apply 500Vdc between primary and Earth.
在初级与地间加 500Vdc 进行绝缘测试，最小绝缘阻抗 50MΩ.

9. Derating Curve/降额曲线





10. Mach. Outline Drawing/外观示意图 ZGH0230-N0



1. 公差：未标识公差统一±0.5的公差，标识的以标识公差为准 / Tolerance:±0.5mm for unidentified part, indentified refer to the fact
2. Unit/单位：mm

Dimensions/尺寸	Millimeters(Inches) 毫米(英寸)
Length/长度	260.6(10.25)
Width/宽度	98(3.85)
Height/高度	44.5（1.75)

Wire/线材	Specification/规格描述
AC Input/AC 输入端	3*1.0mm^2 CCC+VDE
DC Output/DC 输出端	UL 18#2C
Dimming/调光端	/

11. I/O Marking Drawing/铭牌示意图