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1. GENERAL / 产品概述

The document detail the electrical, mechanical and environmental specifications of a LED driver power supply, The power supply provide **5W (32V 0.125A)** continuous output power .The power supply shall meet the RoHS requirement.

资料详细描述了一款 **5W (32V 0.125A)**连续输出功率 LED 驱动电源的电气特性,结构特性及使用环境等要求.此款电源符合 CE RoHS 要求.

1.1 Description / 外形描述

- With Aluminum Case /铝外壳型 With Plastic Case /塑胶外壳型
 Open Frame / 开放式结构 Others / 其它型

2. ELECTRICAL PERFORMANCE / 电气性能

2.1 Input Characteristics / 输入特性

2.1.1 Input Voltage & Frequency / 输入电压与频率

The range of input voltage is from 220Vac to **240Vac**. Single-Phase AC.

输入电压范围：从 220Vac 到 **240Vac**, 单相交流输入.

Items / 项目	Min./最小	Typ./典型	Max./最大
Input Voltage/输入电压	220Vac	230Vac	240Vac
Input Frequency/输入频率	47Hz	50/60Hz	63Hz

2.1.2 Input Current / 输入电流

0.03A Max. @ 220V-**240V**ac input & Full load / 满载

2.1.3 Inrush Current (25°C, cold start) / 浪涌电流 (25°C, 冷启动)

50 A Max. @ 240Vac input, 25°C, cold start.

The fuse and any parts not be damaged when the power supply is powered on.

开机瞬间保险丝和任何零件都不得损坏.

2.1.4 Power Factor/功率因数

Items / 项目	Min./最小	Typ./典型	Test Condition / 测试条件
Power Factor / 功率因数	0.92	0.94	220Vac,25°C& Full load
	0.92	0.94	240Vac,25°C& Full load

2.1.5 Efficiency / 效率

Items / 项目	Min./最小	Typ./典型	Test Condition / 测试条件
Efficiency / 转换效率	80%	83%	220Vac,25°C& Full load
	80%	83%	240Vac,25°C& Full load

2.2 Output Characteristics/输出特性

2.2.1 Static Output Characteristics / 静态输出

Items / 项目	Min./最小	Nom./额定	Max./最大
Output Current / 输出电流 (±5%)	0.11A	0.125A	0.14A
Output Voltage Regulation / 输出电压范围	28V	32V	36V

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)

2.2.2 Turn-on Delay Time / 开机延迟时间

0.5S Max. @ 220 Vac input & Full load /满载

2.2.3 Rise Time / 上升时间

150mS Max. @ 220 Vac input & Full load /满载

2.2.4 Output overshoot / 输出过冲

10% Max. @ Steady output current max value, When the power on.
当电源开启时, 输出电流过冲不超过稳态电流最大值的 10%.

3. Environment Requirements / 环境要求

The power supply shall operate normally and no damage as a result of the environment conditions listed in this section.

电源在本节所描述的环境下可以正常工作不会损坏.

3.1 Operating Temperature and Relative Humidity / 操作温度要求

-20°C to +40°C

3.2 Storage Temperature and Relative Humidity / 存储温度要求

-40°C to +65°C

3.3 Burn-in / 老化实验

The power supply shall under go a minimum of 4 Hours burn-in test at 4°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老化 4 小时.

3.4 MTBF & Life time / 平均无故障间隔时间 (MIL-HDBK-217F) 与寿命

The MTBF shall be at least 200,000hours at 25°C, Full load and nominal input condition.

平均间隔故障时间: 至少 200,000 小时, 25°C环境及额定输入与满载条件下.

The life time shall be at least 50,000 hours at 50°C, Full load and nominal input condition.

产品寿命: 至少 50,000 小时, 50°C环境及额定输入满载条件下.

4. EMC & SAFETY STANDARDS / 电磁兼容与安规

4.1 EMI Standards / EMI 标准

Standard	Test Item	Remark
EN55015	Disturbance voltages at mains terminals	Accord
	Radiated disturbance in frequency range 9KHz to 30MHz	Accord
	Radiated disturbance in frequency range 30MHz to 300MHz	Accord

4.2 Regulatory Standards / 安规标准

Type/安规	Country/国家	Standard/标准	State/状态
CE	Europe	EN61347-2-13:2006 EN61347-1:2001	Meet
IEC		IEC61347-2-13	Meet