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1. SCOPE/概述

This document describes in detail the electrical performance, 0-10V dimming performance, structural performance and environmental requirements of a three-gear LED constant-current drive power supply for shifting current and color temperature. This LED drive power supply is only suitable for LED loads.

此份资料详细描述了一款三档拨电流拨色温LED恒流驱动电源的电气性能, 0-10V调光性能, 结构性能及环境等要求,此LED驱动电源只适合LED负载。

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 108 to 305Vac single phase.

输入电压范围: 单相从108到305Vac.

Input Characteristics/输入特性	Minimum/最小	Nominal/额定值	Maximum/最大
Input Voltage/输入电压	108Vac	120-277Vac	305Vac
Input Frequency/输入频率	47Hz	60Hz/50Hz	63 Hz

2.2. Input AC Current/输入电流

0.5A max. @ input 120Vac & max. load /在输入120Vac和最大负载条件下最大0.5A

2.3. Inrush Current /浪涌电流

30A max. @ input 277Vac & max. load /在输入277Vac和最大负载条件下最大30A

2.4. Power Factor & THD /功率因素和谐波电流

$PF \geq 0.90$ & $THD < 20\%$ @ input 120-277Vac & output 30-38V. load.

在输入120-277Vac;输出30-38V时 $PF \geq 0.90$, $THD < 20\%$ 。

2.5. Efficiency (Normal)/效率

85% min. @ input 120Vac & max. load /在输入120Vac和最大负载条件下最小85%

85% min. @ input 277Vac & max. load /在输入277Vac和最大负载条件下最小85%

3. Output Characteristics/输出特性

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

Output	LED Load/LED 负载		Output voltage Range	R+N
Output current/ 输出电流	Min. Load	Max. Load	输出电压范围	纹波与噪声
1050mA $\pm$ 5%	31.5W	39.9W	30-38Vdc	$\leq 0.4V_{p-p}$
800mA $\pm$ 5%	24W	30.4W		
700mA $\pm$ 5%	21W	26.6W		

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: 测量时示波器选用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. Turn - on Delay Time/开机延迟时间

0.75S max. @ input 120 - 277 Vac & max. load

在输入120-277Vac和最大负载条件下延迟时间最大0.75S。

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,产品将会自动延时恢复正常

4.2. LED disconnection Protection /LED开路保护

When the LED disconnection 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LED开路时,产品进入保护状态,如打嗝或钳在某输出最高电压状态,产品不会损伤,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

ta: -20℃ to +50℃

10%RH to 90%RH

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

-40℃ to +80℃

5% to 90%RH non-condensing @ Sea level shall be low 10,000 feet/低于10,000英尺.

5.3. RoHS/环保要求

The LED driver shall meet the RoHS requirement.

此款电源符合RoHS要求.

6. Reliability Requirements/可靠性要求

6.1. Burn-in/老化

The power supply shall under go a minimum of 2-4 Hours burn-in test at 45℃ ± 5℃ under full load condition

产品至少要在45℃ ± 5℃的环境及满载条件下老化2-4小时

6.2. Product Life/产品寿命

50,000 hours min. @ input 120/277Vac & max. load & Tc=65℃ Tc at CY3 .

在输入120/277Vac, 最大负载, Tc =65℃条件下, Tc在CY3, 寿命最少50,000小时.

7. Safety Standards/安规标准

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

Primary to Secondary: 1800Vac 5mA Max / 60second(3second for production)

初级对次级: 1800Vac /5mA Max / 60秒(生产时高压测试时间: 3秒)

Ground to Primary: 1800Vac 5mA Max / 60second(3second for production)

地线对初级: 1800Vac /5mA Max / 60秒(生产时高压测试时间: 3秒)

Ground to Secondary: 500Vac 5mA Max / 60second(3second for production)

地线对次级: 500Vac /5mA Max / 60秒(生产时高压测试时间: 3秒)

7.2 Insulation Resistance/绝缘阻抗

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

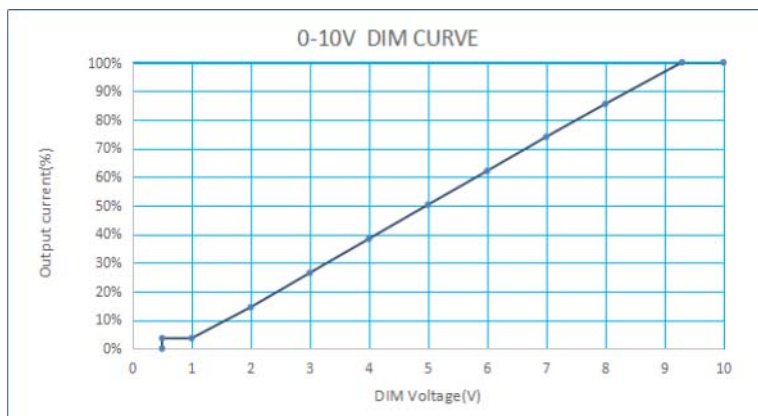
在初级与次级间加500Vdc进行绝缘测试, 最小绝缘阻抗50MΩ.

7.3 Safety And EMC Compliance/符合安全和 EMC

UL8750.UL1310-CLASS 2.CAN/CSA C22.2 No. 250.13

可配合客户整灯通过 FCC 47 CFR PART 15, CLASS B

8. 0-10V 调光曲线/0-10V Dimming curve



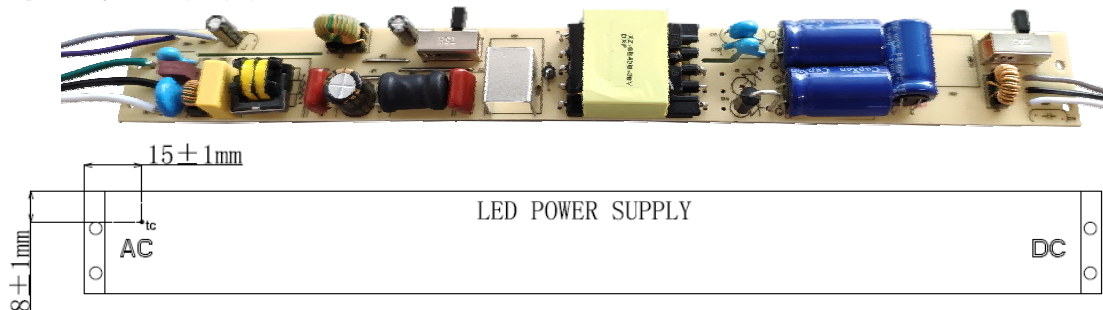
调光特点: 调光端口电压@9.3±0.5V时, 100%电流满载输出;

调光端口电压0.5V≤@≤1.0V时, 有电流负载输出且恒定不变;

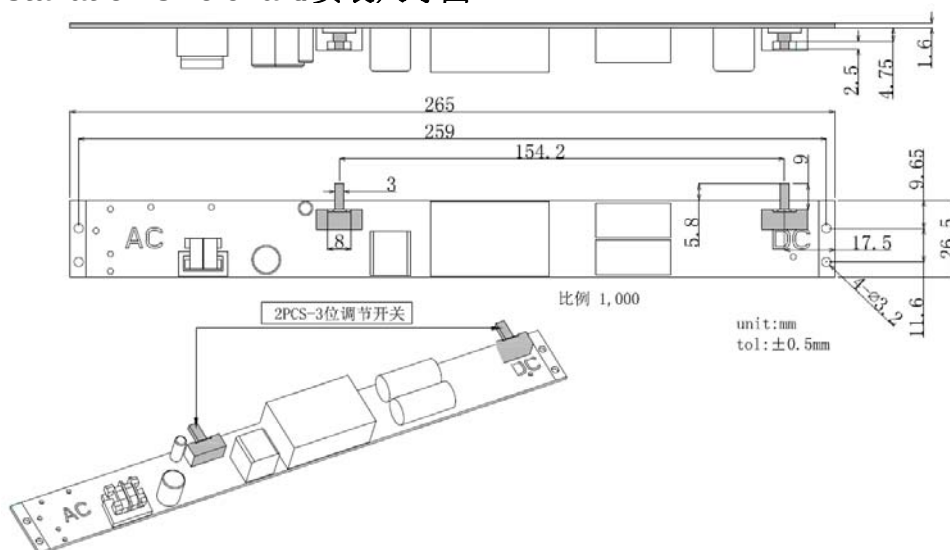
@调光端口电压 0.5V 时, 正常启机时间≤2S.

9、Outline Drawing/外观示意图

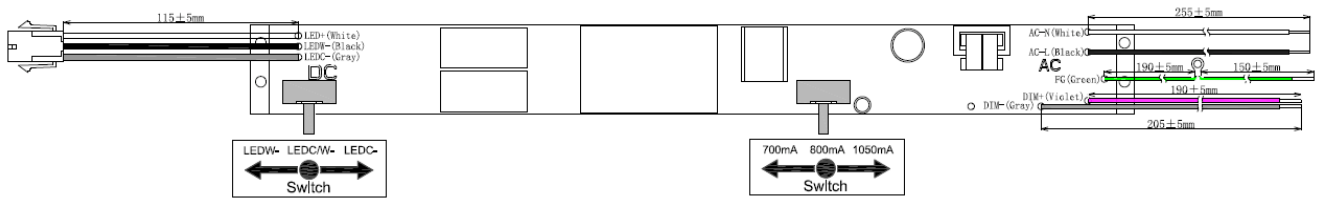
Outline size: L265*W26.5mm/typical 外观尺寸: 长 265*宽 26.5 (毫米) /典型值,图中标签仅供参考,不做承认用。



10. installation size chart/安装尺寸图



11. WIRD DIAGRAM/接线图



Input wire	UL1569 18AWG(White and Black)
FG wire	UL1569 18AWG(Green)
DIM wire	UL1569 22AWG(Violet and Gray)
Output wire	UL1569 22AWG(White、 Black and Gray)