

产 品 规 格 书

PRODUCT ITEM /产品名称:

E3BP-KB-024D-550L

PRODUCT SPECIFICATIONS /产品规格:

24W / 550mA

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1. SCOPE/概述

The document detail the electrical, PWM dimming and color temperature performance, mechanical , and environmental specifications of a 24W constant current LED driver. This LED drive power supply is suitable only for LED load.

此份资料详细描述了一款24W LED恒流驱动电源的电气性能, PWM调光和调色温性能, 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 100 to 277Vac single phase.

输入电压范围: 单相从100到277Vac.

Input Characteristics/输入特性	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	63 Hz

2.2. Input AC Current/输入电流

0.35A max. @ input 100Vac & max. load /在输入100Vac和最大负载条件下最大0.35A

2.3. Inrush Current /浪涌电流

50A max. @ input 277Vac & max. load /在输入277Vac和最大负载条件下最大50A

2.4. Power Factor/功率因素

0.9 min. @ input 100Vac & max. load /在输入100Vac和最大负载条件下最小0.9

0.9 min. @ input 220Vac & max. load /在输入220Vac和最大负载条件下最小0.9

2.5. Efficiency (Normal)/效率

84% min. @ input 110Vac & max. load /在输入110Vac和最大负载条件下最小84%

85% min. @ input 220Vac & max. load /在输入220Vac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	R+N 纹波与噪声
Output current/ 输出电流	Min. Load	Max. Load	Range 输出电压范围	
550mA±5%	14W	24W	27-42Vdc	≤6Vp-p

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

0.5S max. @ input 100 - 264 Vac & max. load

在输入100-264Vac和最大负载条件下延迟时间最大0.5S。

4. Environment Requirements/环境要求

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

-10°C to +45°C

20%RH to 90%RH

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

-20°C to +70°C

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

4.3. RoHS/环保要求

The LED driver shall meet the RoHS requirement.

此款电源符合RoHS要求.

5. Reliability Requirements/可靠性要求

5.1. Burn-in/老化

The power supply shall under go a minimum of 2-4 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老化2-4小时

5.2. MTBF Qualification/平均间隔故障时间估算

The MTBF shall be at least 20,000hours 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20,000小时.

6. Safety Standards/安规标准

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

Primary to Secondary: 3750Vac 5mA Max / 60second(3second for production)

初级对次级: 3750Vac /5mA Max / 60秒(生产时高压测试时间: 3秒)

6.2 Insulation Resistance/绝缘阻抗

50M Ω 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50M Ω . Mach.

6.3 EMI Standard

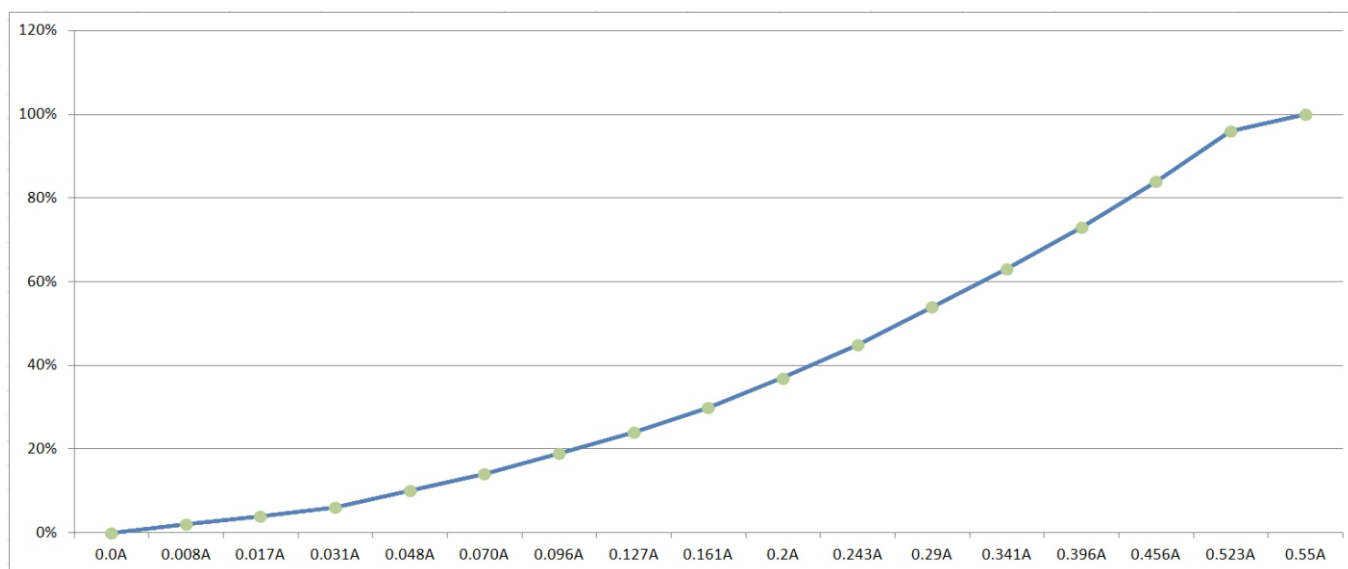
EN 55015:1998,+A1:2000 +A2:2003,CLASS B.

7. Outline Drawing/外观示意图

Outline size: L145*W42*H29mm/typical 外观尺寸: 长 145*宽 42*高 29 (毫米) /典型值



8. PWM 调光曲线/PWM Dimming curve



9. 接口

9.1 AC 输入 L,N

9.2 DC 输出(LED W- LED W+) (LED C- LED C+)