

DESCRIPTION

❖ **CHARACTERS**

- ❖ Size/Weight: 115×30.3×50(mm)/248±20(g);
- ❖ IP20 Fully protective plastic shell;
- ❖ Hidden screw terminal;
- ❖ With input surge current suppression;
- ❖ ≤2s buffer fast start;
- ❖ Output short circuit protection;
- ❖ Output overload protection;
- ❖ Working temperature range of -20~45℃ (please refer to "derating application curve" for specific application);

❖ **APPLICATION AREA**

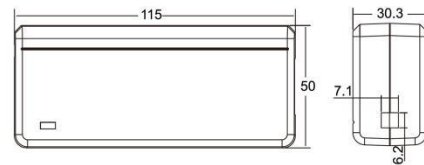
- ❖ High efficiency, energy saving and long life LED lighting equipment.
- ❖ High grade home LED decorative light belt;
- ❖ High grade LED advertisement and display board;
- ❖ LED lighting layout of exhibition racks and jewelry counters in high-end supermarkets;

SUMMARY

- ❖ PRI 100V~240Vac 50/60Hz
- ❖ SEC CV--- 24V±5% Max.2A/48W
- ❖ Efficiency(Typ.) 88%
- ❖ Withstand voltage I/P-O/P: 3.75KVac
- ❖ Surge capacity L-N:2kV
- ❖ Temperature ta:45℃ tc:85℃

CERTIFICATION

Certification types will increase, please contact our business.

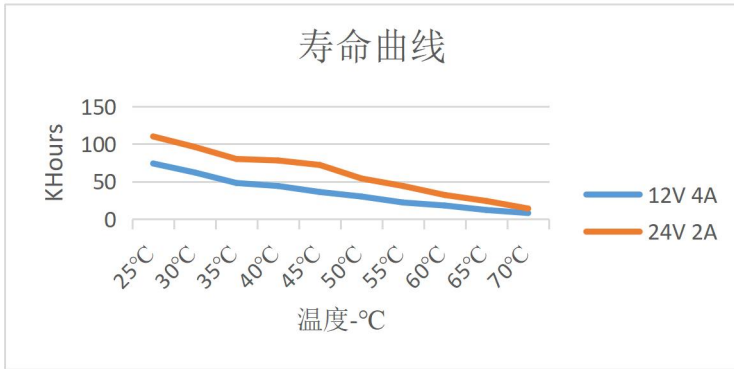


| ITEM | | MODEL |
|--------|-------------------------------------|---------------------------|
| | | AD-EL-12==240480-Z |
| Output | Rated Power | 48W |
| | Output voltage | 12V |
| | Output current | 2A |
| | Ripple voltage +noise(peak-to-peak) | 150mV (Vp-p) |
| | Voltage accuracy | ±2% |
| | Start time(maximum) | 2s |
| | Temperature drift | ±0.03%/℃ (-0-60℃) |
| | Output linear adjustment rate | ±2% |
| | Preserve time | 50ms |

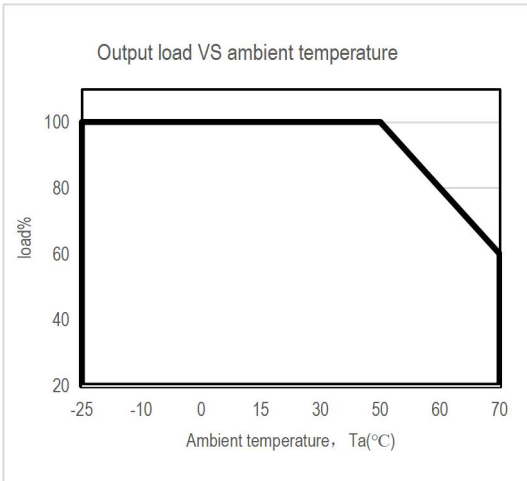
| | | |
|----------------------------|---|---|
| Input | Input voltage | 100VAC~240VAC |
| | Input frequency | 50HZ/60HZ |
| | Input current(maximum) | 0.9A |
| | Leakage current | 0.8mA |
| | Efficiency | 88% |
| | Surge current | 40A @230Vac Cold start 40A @230Vac |
| | No-load power consumption / standby power consumption | 0.3W/0.8W |
| Protection Characteristics | Over current protection | 3A |
| | Short circuit protection | Yes |
| Environmental description | Operating temperature | Tcase=-20℃-50℃ |
| | Working humidity | 20-95%RH |
| | Storage temperature-humidity | -20℃-50℃ 10-95%RH |
| | Atmospheric pressure | 86-106KPa |
| Safety and regulation | Certification | CE、CB、UL-8750+Class P |
| | Pressure resistant | I/P-O/P:3KVAC |
| | Insulation resistance | I/P-O/P, I/P-FG,O/P-FG:100MΩ/500Vdc/70%RH |
| | Electromagnetic compatibility interference | Meets EN55015, EN61000-3-2, EN61000-3-3, EN61547 requirements |
| | Electromagnetic compatibility anti-jamming | EN61000-3-2, EN61000-3-3, EN61547 standard requirements |
| Others | Package | The net weight is about248g |
| | Size | 115*30.3*50mm |
| | IP Level description | IP20 |
| | Warranty description | ≥ 2 years, refer to life curve |
| Test Equipment | LCR METER: TH2830, fluke digital multimeter, electronic load: PEL-3041, AC source: remote PPS1010, power analyzer: Ainuo, digital oscilloscope: SDS3034E, conduction analyzer: remote LS-3, FFT3030, ground resistance tester: MS2520C Type, withstand voltage tester: TH9320, oven, computer monitoring aging test system. | |
| Test Instruction | Ripple voltage test method: The oscilloscope probe is set to AC, the bandwidth is set to 20M, and 10uF electrolytic capacitor/100nF chip capacitor is connected at the output end. Except for the temperature rise test project, the rest of the test temperature is at 25℃, 230 Vac. | |

Product life span

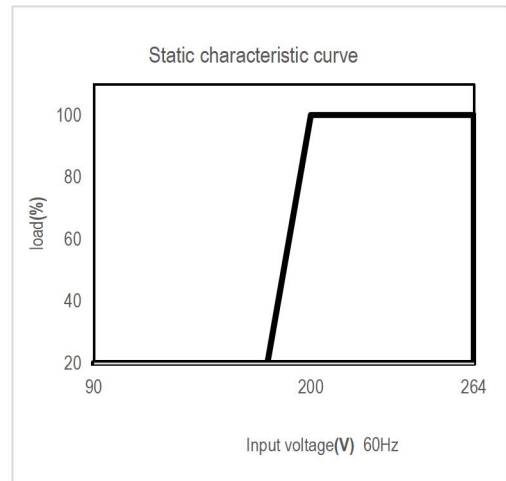
In a confined space, when the ambient temperature reaches 30 °C, 40 °C, 50 °C, 60 °C, 70 °C, Calculate product life



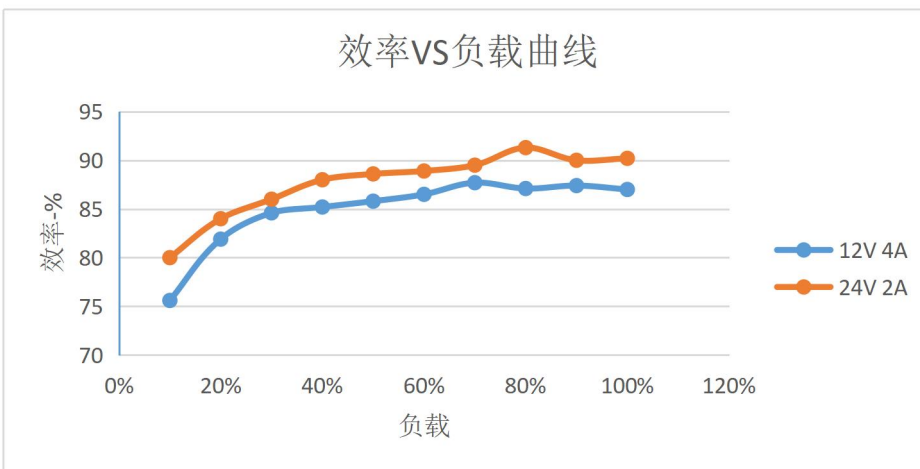
Output load VS ambient temperature



Static characteristic curve



Efficiency vs load



描述

特征

- ❖ 尺寸/重量: 115×30.3×50 (mm) / 248±20 (g)
- ❖ IP20全防护型塑料外壳
- ❖ 隐藏式螺钉接线端子
- ❖ 具有输入浪涌电流抑制
- ❖ ≤2s缓冲快速启动
- ❖ 输出短路保护
- ❖ 输出过载保护
- ❖ -20~45℃工作温度范围（具体应用请按“减额应用曲线”）；

应用领域

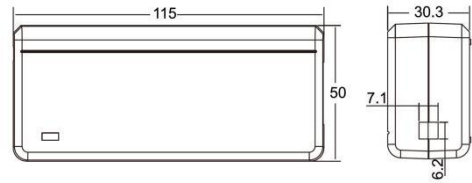
- ❖ 高效节能长寿命LED照明设备
- ❖ 高档家居LED装饰灯带
- ❖ 高档LED广告、展示牌
- ❖ 高档超市展物架、珠宝柜台等LED灯光布置

概要

- ❖ 输入 100V~240Vac 50/60Hz
- ❖ 输出 恒压---24V±3% Max. 2A/48W
- ❖ 效率 88%
- ❖ 耐压 I/P-O/P: 3.75KVac
- ❖ 抗浪涌电压 L-N:2kV
- ❖ 温度 ta:45℃ tc:90℃

认证

认证种类将会增加，请联系本公司业务。

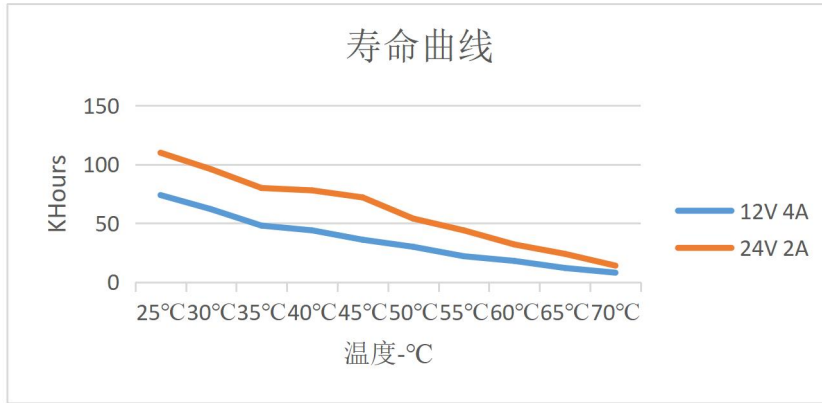


| 说明 | | 型号 |
|----|--------------|------------------|
| | | AD-EL-240480-Z |
| 输出 | 输出电压 | 24V |
| | 输出电流 | 2A |
| | 纹波电压+噪音（峰峰值） | 150mV (Vp-p) |
| | 电压精度 | ±2% |
| | 启动时间（最大值） | 2s |
| | 温度漂移 | ±0.03%/℃ (0-60℃) |
| | 输出线性调整率 | ±2% |

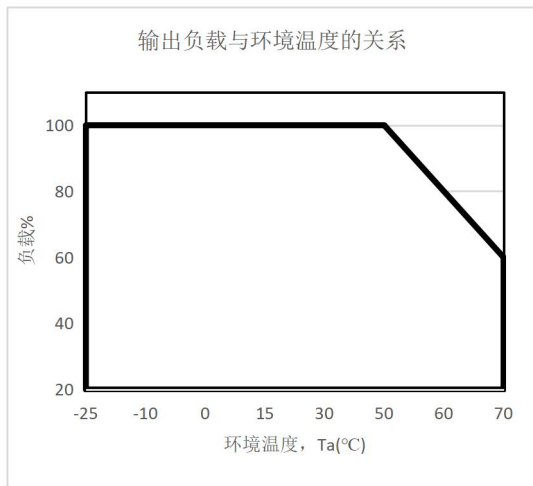
| | | |
|-------|---|--|
| | 负载调整率 | ±1% |
| | 保持时间 | 50ms |
| 输入特性 | 输入电压 | 100VAC~240VAC |
| | 输入频率 | 50HZ/60HZ |
| | 输入电流（最大值） | 0.9A |
| | 漏电流 | 0.8mA |
| | 效率 | 88% |
| | 浪涌电流 | 冷启动 40A @230Vac Cold start 40A @230Vac |
| | 空载功耗/待机功耗 | 0.3W/0.8W |
| | 保护特性 | 过流保护 |
| 短路保护 | | 有 |
| 环境描述 | 工作温度 | Tcase=-20℃-50℃ |
| | 工作湿度 | 20-95%RH, 无冷凝 |
| | 存储温度-湿度 | -20℃-50℃ 10-95%RH |
| | 大气压强 | 86-106KPa |
| 安全及规范 | 认证 | CE、CB、UL-8750+Class P |
| | 耐压 | I/P-O/P:3KVAC |
| | 绝缘阻抗 | I/P-O/P, I/P-FG, O/P-FG:100MΩ/500Vdc/70%RH |
| | 电磁兼容干扰 | 符合 EN55015、EN61000-3-2、EN61000-3-3, EN61547 标准要求 |
| | 电磁兼容抗干扰 | EN61000-3-2, EN61000-3-3, EN61547 标准要求 |
| 其他 | 包装 | 净重量约 248g |
| | 尺寸 | 115*30.3*50mm |
| | IP 等级说明 | IP20 |
| | 质保说明 | ≥2 年, 参见寿命曲线 |
| 测试设备 | LCR METER: TH2830, fluke 数字万用表, 电子负载: PEL-3041, 交流源: 远方 PPS1010、功率分析仪: Ainuo, 数字示波器: SDS3034E, 传导分析仪: 远方 LS-3、FFT3030, 接地电阻测试仪: MS2520C 型, 耐压测试仪: TH9320, 烤箱, 电脑监控老化测试系统。 | |
| 测试说明 | 纹波电压测试方法: 示波器探头设置 AC, 带宽设置 20M, 在输出端并接 10uF 电解电容/100nF 贴片电容。除温升测试项目外, 其余测试温度均在 25℃, 230Vac 条件下。 | |

产品寿命

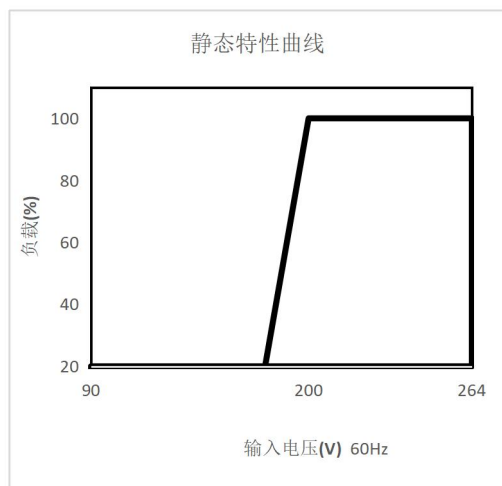
在一个密闭空间内，当环境温度达到30℃，40℃，50℃，60℃，70℃时，计算产品使用寿命



输出负载与环境温度的关系



静态特性曲线



效率VS负载

