

DESCRIPTION

❖ **CHARACTERS**

- ❖ Size/Weight: 115×30.3×50(mm)/272±20(g);
- ❖ IP20 Fully protective plastic shell;
- ❖ Hidden screw terminal;
- ❖ With input surge current suppression;
- ❖ ≤1s 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**

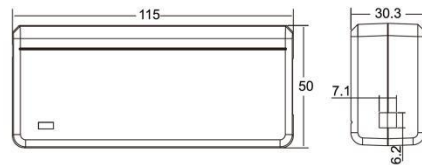
- ❖ High efficiency, energy saving and long life LED lighting equipment.
- ❖ High grade home LED decorative light belt;
- ❖ High grade LED advertisement and display board;
- ❖ LED lighting layout of exhibition racks and jewelry counters in high-end supermarkets;

SUMMARY

- ❖ PRI 100V~240Vac 50/60Hz
- ❖ SEC CV--- 12V±5% Max.4A/48W
- ❖ Efficiency(Typ.) 86%
- ❖ 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.

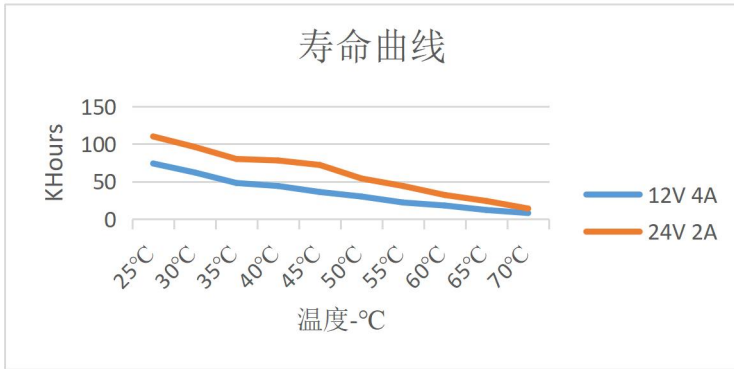


ITEM		MODEL
		AD-EL-120480-Z
Output	Rated Power	48W
	Output voltage	12V
	Output current	4A
	Ripple voltage +noise(peak-to-peak)	150mV (Vp-p)
	Voltage accuracy	±2%
	Start time(maximum)	1s
	Temperature drift	±0.03%/℃ (0-60℃)
	Output linear adjustment rate	±2%
	Preserve time	50ms

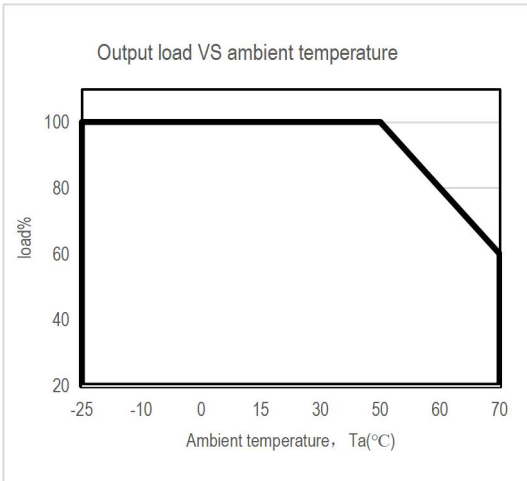
Input	Input voltage	100VAC~240VAC
	Input frequency	50HZ/60HZ
	Input current(maximum)	0.9A
	Leakage current	0.8mA
	Efficiency	86%
	Surge current	40A @230Vac Cold start 40A @230Vac
	No-load power consumption / standby power consumption	0.3W/0.8W
Protection Characteristics	Over current protection	6A
	Short 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 about272
	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

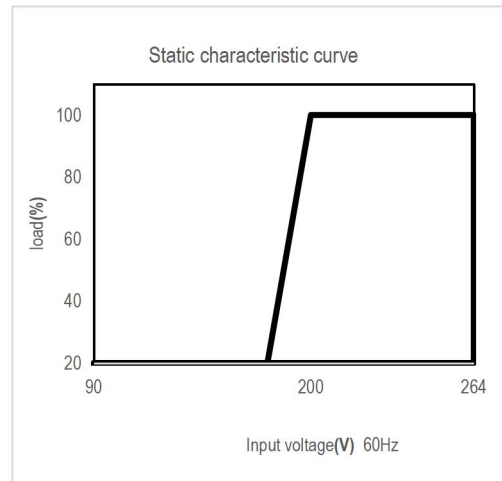
In a confined space, when the ambient temperature reaches 30 °C, 40 °C, 50 °C, 60 °C, 70 °C, Calculate product life



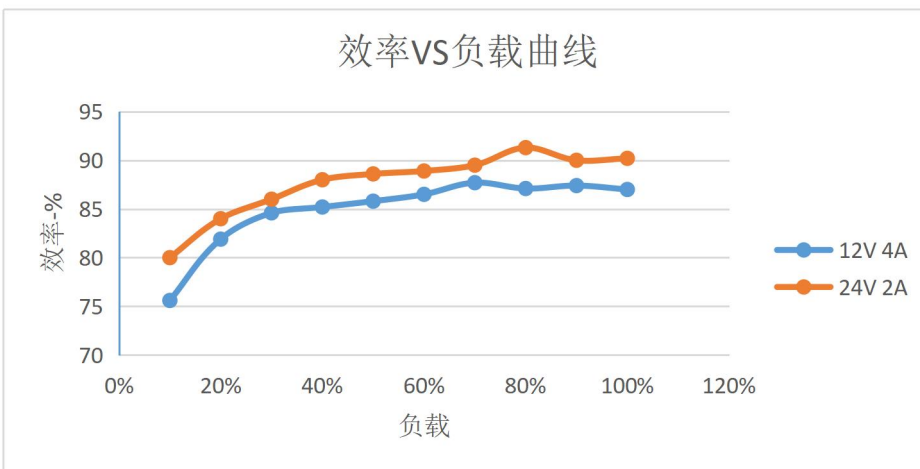
Output load VS ambient temperature



Static characteristic curve



Efficiency vs load



描述

特征

- ❖ 尺寸/重量: 115×30.3×50 (mm) / 272±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
- ❖ ≤1s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

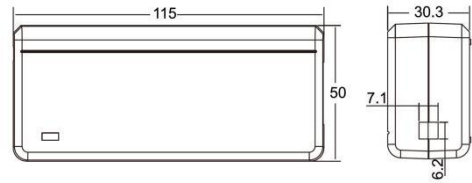
- ❖ 高效节能长寿命LED照明设备
- ❖ 高档家居LED装饰灯带
- ❖ 高档LED广告、展示牌
- ❖ 高档超市展物架、珠宝柜台等LED灯光布置

概要

- ❖ 输入 100V~240Vac 50/60Hz
- ❖ 输出 恒压---12V±3% Max. 4A/48W
- ❖ 效率 86%
- ❖ 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。

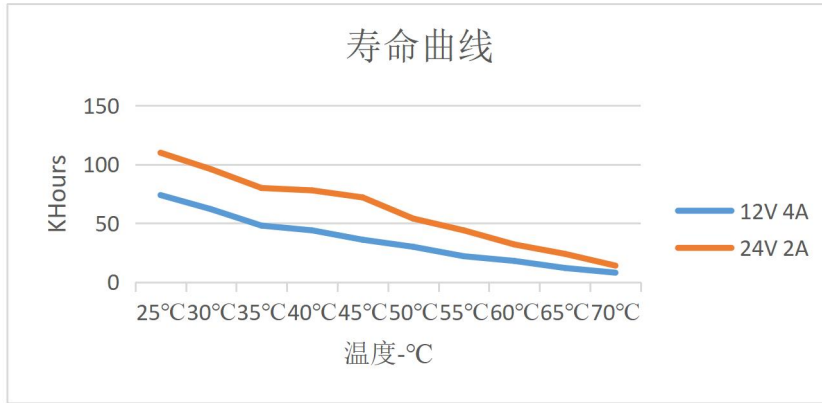


说明		型号
		AD-EL-120480-Z
输出	输出电压	12V
	输出电流	4A
	纹波电压+噪音（峰峰值）	150mV (Vp-p)
	电压精度	±2%
	启动时间（最大值）	1s
	温度漂移	±0.03%/℃ (0-60℃)
	输出线性调整率	±2%

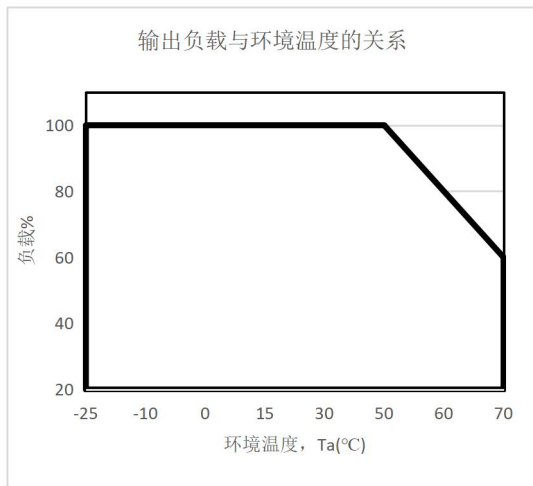
	负载调整率	±1%
	保持时间	50ms
输入特性	输入电压	100VAC~240VAC
	输入频率	50HZ/60HZ
	输入电流（最大值）	0.9A
	漏电流	0.8mA
	效率	86%
	浪涌电流	冷启动 40A @230Vac Cold start 40A @230Vac
	空载功耗/待机功耗	0.3W/0.8W
	保护特性	过流保护
短路保护		有
环境描述	工作温度	Tcase=-20℃-50℃
	工作湿度	20-95%RH, 无冷凝
	存储温度-湿度	-20℃-50℃ 10-95%RH
	大气压强	86-106KPa
安全及规范	认证	CE、CB、UL-8750+Class P
	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 272g
	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

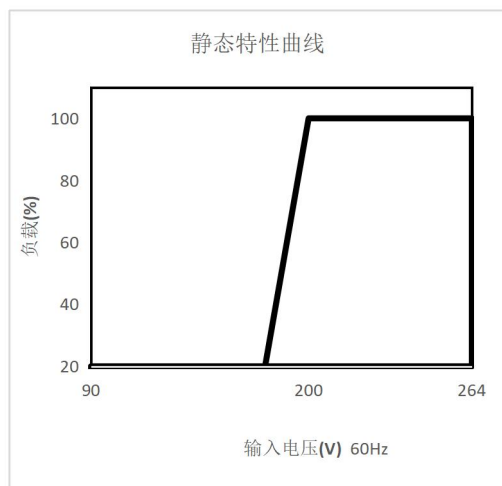
在一个密闭空间内，当环境温度达到30℃，40℃，50℃，60℃，70℃时，计算产品使用寿命



输出负载与环境温度的关系



静态特性曲线



效率VS负载

