

DESCRIPTION

❖ CHARACTERS

- ❖ Size/Weight: 417×30×25(mm)/261±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;

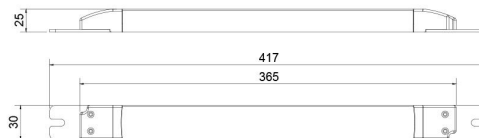
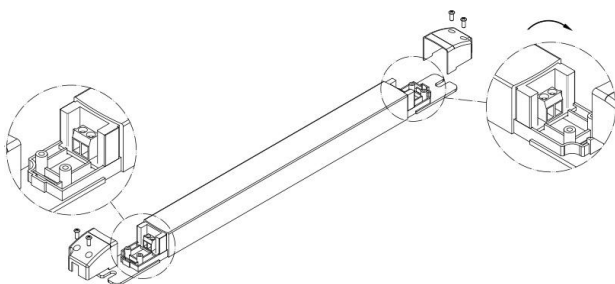
SUMMARY

- ❖ PRI 100V~240Vac 50/60Hz
- ❖ SEC CV---24V±5% Max.5A/120W
- ❖ Efficiency(Typ.) 92%
- ❖ 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.

Class P **CB** **C** **E**   **SELV**   

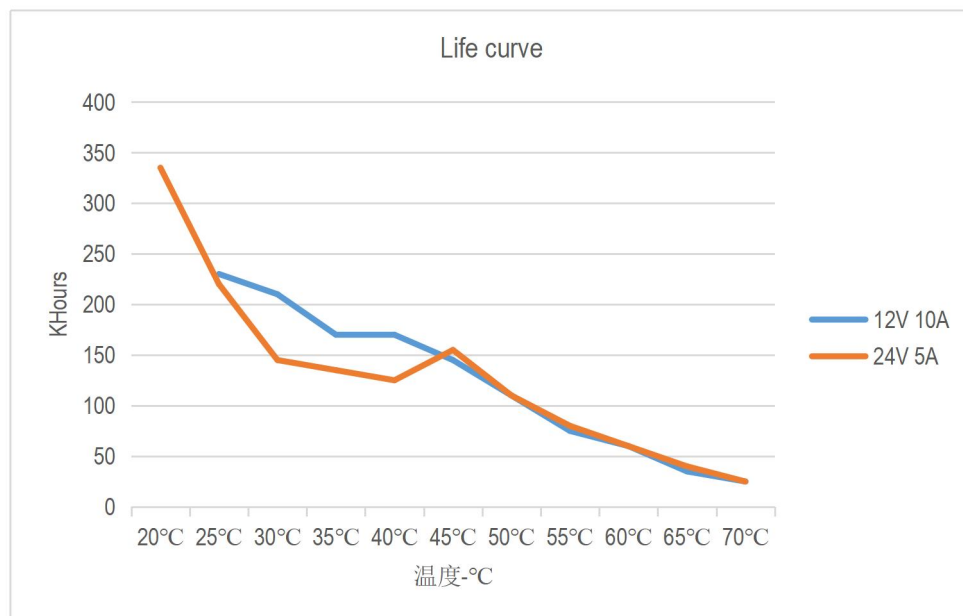


ITEM		MODEL
		AD-EL-2401200-B
Output	Rated Power	120W
	Output voltage	24V
	Output current	5A
	Ripple voltage +noise(peak-to-peak)	404mV (Vp-p)
	Voltage accuracy	±2%
	Start time(maximum)	
	Temperature drift	±0.03%/℃ (0-60℃)
	Output linear adjustment rate	±2%

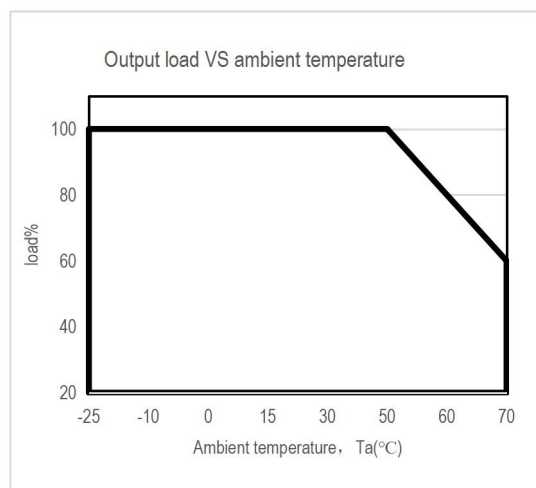
	Load regulation rate	±2%
	Preserve time	200ms
Input	Input voltage	100VAC~240VAC
	Input frequency	50HZ/60HZ
	Input current(maximum)	1.4A
	Power factor	0.8
	Total harmonic	< 30%
	Leakage current	0.9mA
	Efficiency	90%
	Surge current	40A @230Vac Cold start 40A @230Vac
	No-load power consumption / standby power consumption	1.5W
Protection Characteristics	Over current protection	7.5A
	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	Net weight 261g
	Size	417*30*25mm
	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

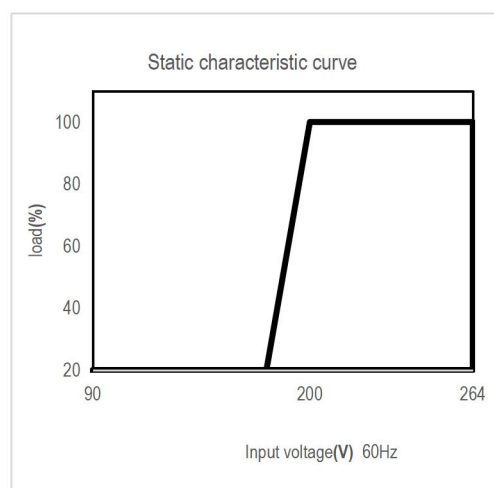
In a confined space, when the ambient temperature reaches 30 °C, 40 °C, 50 °C, 60 °C, 70 °C, Calculate product life



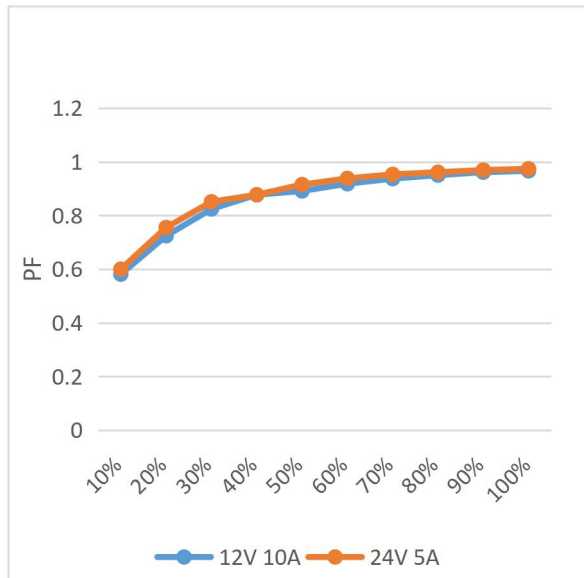
Output load VS ambient temperature



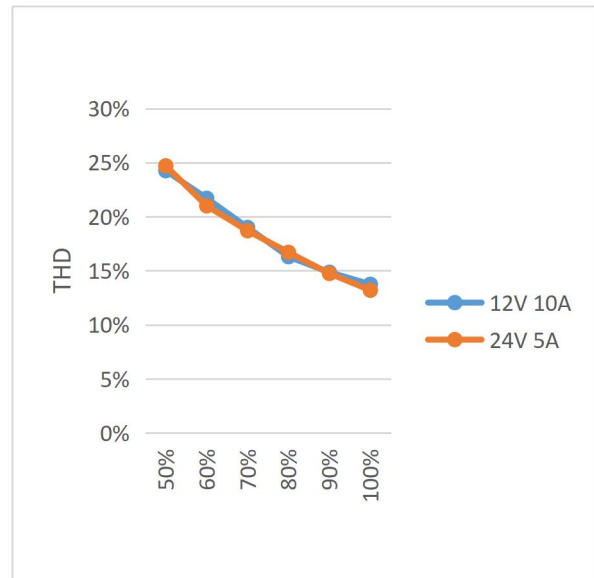
Static characteristic curve



Power factor characteristic curve



Total harmonic distortion characteristic curve



描述

特征

- ❖ 尺寸/重量: 417×30×25(mm)/261±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

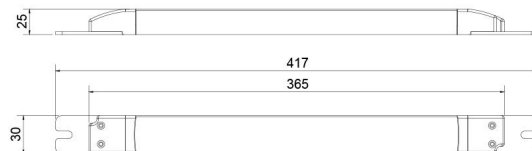
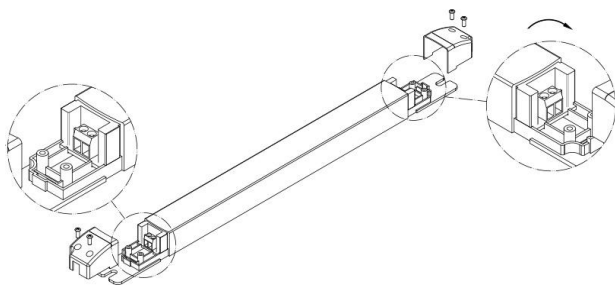
概要

- ❖ 输入 100V~240Vac 50/60Hz
- ❖ 输出 恒压---24V±5% Max. 5A/120W
- ❖ 效率 92%
- ❖ 耐压 I/P-O/P: 3.75KVac
- ❖ 抗浪涌电压 L-N:2kV
- ❖ 温度 ta:45℃ tc:85℃

认证

认证种类将会增加，请联系本公司业务。

Class P **CB** **CE**   **SELV**   

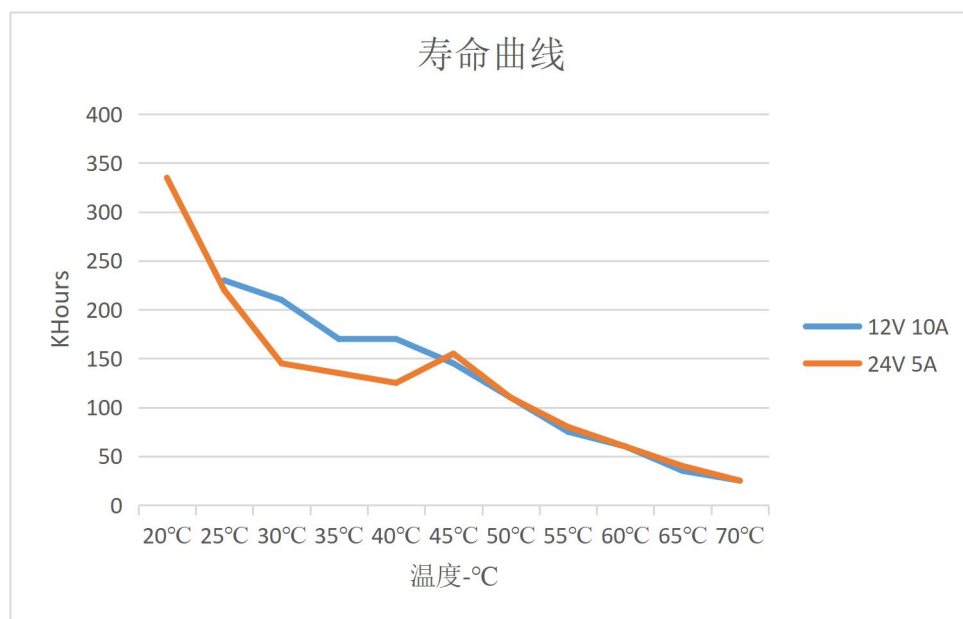


说明		型号
		AD-EL-2401200-B
输出	输出电压	24V
	输出电流	5A
	纹波电压+噪音（峰峰值）	404mV（Vp-p）
	电压精度	±2%
	启动时间（最大值）	<300ms
	温度漂移	±0.03%/℃（0~60℃）
	输出线性调整率	±2%

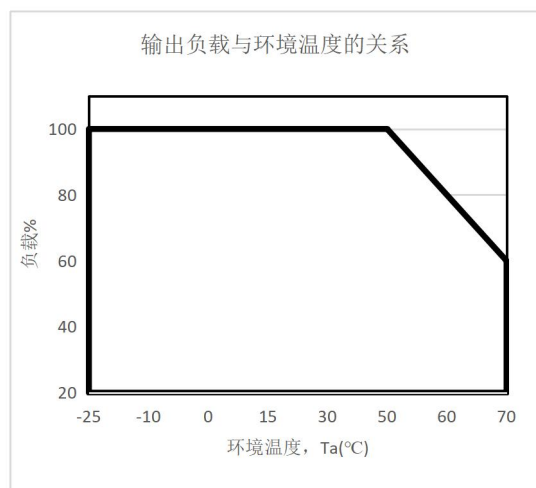
	负载调整率	±2%
	保持时间	2100ms
输入特性	输入电压	100VAC~240VAC
	输入频率	50HZ/60HZ
	输入电流（最大值）	1.4A
	漏电流	0.8mA
	效率	92%
	浪涌电流	冷启动 40A @230Vac Cold start 40A @230Vac
	空载功耗/待机功耗	1.5W
保护特性	过流保护	7.5A
	短路保护	有
环境描述	工作温度	Tcase=-20℃~50℃
	工作湿度	20~95%RH, 无冷凝
	存储温度-湿度	-20℃~50℃ 10~95%RH
	大气压强	86~106KPa
安全及规范	认证	CE、CB、UL-8750+Class P
	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 261g
	尺寸	417*30*25mm
	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

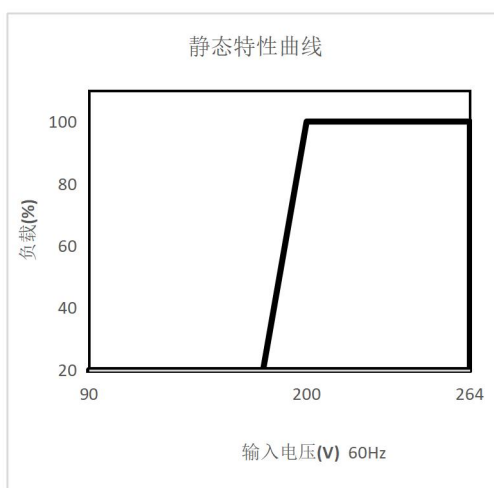
在一个密闭空间内，当环境温度达到30℃，40℃，50℃，60℃，70℃时，计算产品使用寿命



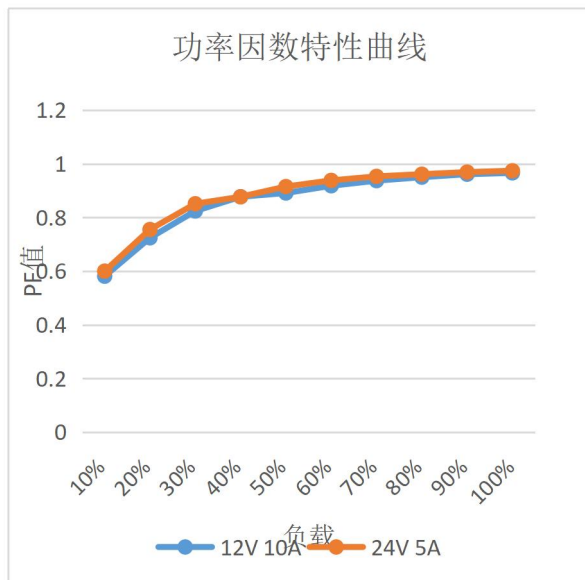
输出负载与环境温度的关系



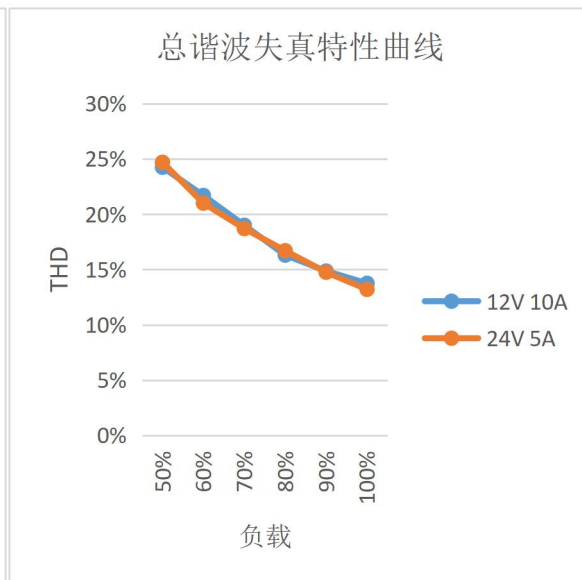
静态特性曲线



功率因数特性曲线



总谐波失真特性曲线



效率VS负载

