

Dimmable LED Drivers—LKAD090D

—产品特性/Feature—

- 100-120VAC(50/60Hz) 输入 / 100-120VAC(50/60Hz) Input
- 隔离方案,前切(或后切)/电子式,可控硅调光,调光非常流畅/Isolated, leading (or trailing)/MOS triac dimming, dimming much smoothly;
- 高效率、高功率因素,稳定性好/ High efficiency, high PF, good steady;
- 短路保护,过流保护,过压保护,过温保护/ Short circuit, over voltage, over current and over temperature protection;
- 100%满载老化测试/ 100% full load burn-in test;
- 兼容市面上绝大部分调光控制系统(98%以上)。Compatible with most dimming control systems on the market
- 独立外置, Class II 恒流类型/ independent, Class II constant current type;
- 防护等级 IP20/ degree of protection IP20;
- 采用自主知识产权单片机控制方案,可以做到0.1%调光解晰度/ By adopting the control scheme of single chip microcomputer with independent intellectual property rights, 0.1% dimming resolution can be achieved lighting, ceiling light, down light and panel light;
- 3年质保期/ 3 years warranty.



产品参数/Specification

Model	LKAD090D	
输入 Input	输入电压范围/Input Voltage range	100-120V
	频率/Frequency	50/60hz
	谐波/THD	≤15%
	功率因数/Power factor	0.99/120VAC
	输入电流 Input current (mA)	854MA
	待机功耗 stand_by power	≤1W/120VAC
	浪涌电流 Inrush Current (Max.)	≤35A@120VAC
	漏电流 Leakage Current	<1MA/110V
输出 Output	额定电压/Rated voltage	40V
	空载电压/No-load Voltage	≤49V
	工作电压范围/working voltage range	20-40V
	额定电流/Rated current	2000mA ± 20MA
	电流精度/Current precision	(+/-) 3%
	额定功率/Rated power	95W
	开机延时/Setup Time	≤0.5s/230VAC
	输出线性调整率Output Line Regulation	±5%
	温度漂移temperature drift	±10%

保护特性	开路保护Output open circuit protection	有/Enable	
	短路保护Short Circuit Protection	打嗝模式/Hiccup mode	
使用环境 Environment Requirements	工作温度/湿度要求 Operating Temp./RH	-30~+45°C/20~95%	
	储存温度,湿度要求 Storage Temp./RH	-40~+80°C/10~95%	
安全和电磁兼容 Safety & EMC	认证编号/Certificate	符合CE/ meet CE	
	耐压 withstand voltage	3750MA/60S	
	绝缘阻抗insulation resistance	500V>100M	
	浪涌等级EMS immunity	IEC6100-4-5 (L-N:1KV)	
	安规标准Safety standard	EN61347, GB19510	
	电磁干扰electromagnetic interference		
	电磁抗干扰Electromagnetic Susceptibility		
其他 Others	IP等级说明 IP level description	IP20	
	质保说明Warranty instructions	3年/3 years	
	尺寸/Size	0.4*355*30*21MM	
	重量/Netweight		
注意事项 matters needing attention	<p>1. 建议客户在灯具供电回路中安装过欠压保护与浪涌保护装置, 以确保用电安全 1. pls suggest the client to instal the unde voltage protection device and surge protection device to ensure Electricity safety</p> <p>2. 电源作为整灯灯具中的一个零部件与终端设备结合使用, 因EMC性能受LED灯具及走线的影响, 终端设备制造商需对整套装置重新进行EMC确认。 2. The power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p> <p>3. 客户在使用电源时, 注意电源通风散热和环境温度, 超过TA时要做降额使用 3. Becareful of ambient temperature and heat dissipation during the client use this unit, When exceeding TA, the power supply shall be derated</p>		

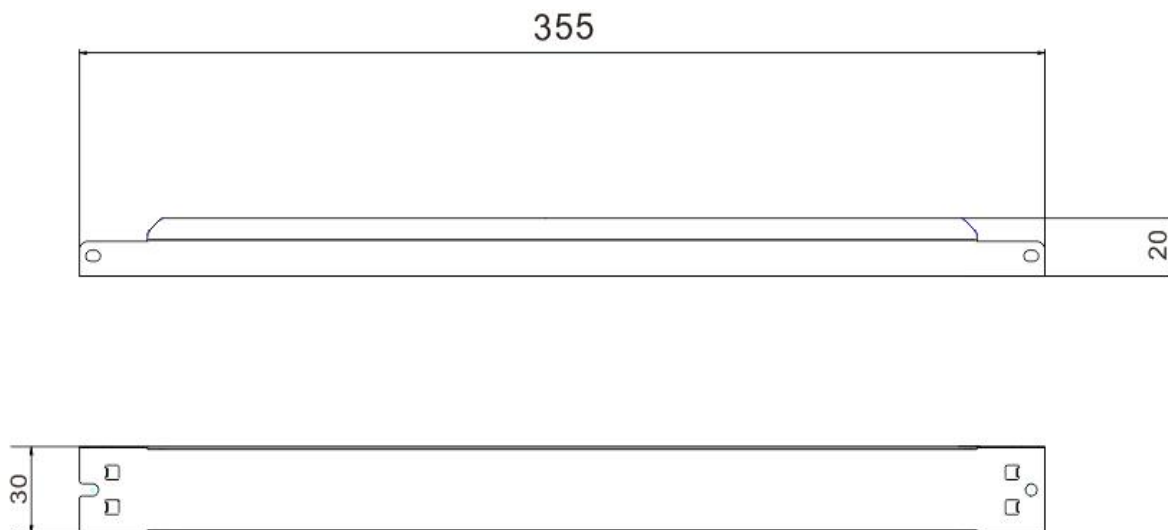
测试数据/Test data

输入电压 Input voltage (Vac)	输入电流 Input current (mA)	输入功率 Input power (W)	功率因数 PF	输出电压 Output voltage (Vdc)	输出电流 Output current (mA)	输出功率 Output Power (W)	转换效率 Efficiency (%)
100V	958.00	92.30	0.960	40.00	1984	79.36	86.0%
	731.00	70.30	0.970	30.00	2033	60.99	86.8%
	493.00	48.80	0.980	20.00	2040	40.80	83.6%
110V	857.00	91.87	0.970	40.00	1985	79.40	86.4%
	656.00	70.40	0.980	30.00	2026	60.78	86.3%
	465.00	47.88	0.980	20.00	2044	40.88	85.4%
120V	774.00	91.48	0.990	40.00	1988	79.52	86.9%
	593.00	70.53	0.990	30.00	2019	60.57	85.9%
	400.00	47.80	0.990	20.00	2030	40.60	84.9%

(负载50V测试/Test load voltage 50V)

编号 NO	调光器型号 Dimmer Type	最小电流 Min current (mA)	最大电流 Max current(mA)	调光比 Dimming ratio	调光效果 Dimming effect
1	WT50529	13MA	2000MA	6.5-100%	OK
2	TLC-0003	40MA	2005MA	20-100%	OK
3	TLC-0004	40MA	2006MA	20-100%	OK
4	TLC-0005	0MA	2007MA	0-100%	OK

产品尺寸图/ Product Size Diagram



产品接线示意图/ Product Connection Diagram



备注/Note:

"1. 所有没提及到的参数都是在120V输入，额定负载和在周围温度为25°C的情况下测试的；
All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature;

2.注意接线的方向，不要搞反输入和输出端

Pay attention to the direction of wiring, do not reverse the input and output terminals

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