

Dimmable LED Drivers—LKAD061D

—产品特性/Feature—

- 120-277VAC (50/60Hz) 输入 / 120-277VAC (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		LKAD061D	
输入 Input	输入电压范围/Input Voltage range	120-277V	
	频率/Frequency	50/60hz	
	谐波/THD	≤10%	
	功率因数/Power factor	0.97/240VAC	
	输入电流 Input current (mA)	222MA/240V	
	待机功耗 stand_by power	≤0.45W/240VAC	
	浪涌电流 Inrush Current (Max.)	≤15A@240VAC	
	漏电流 Leakage Current	<1MA/240V	
输出 Output	额定电压/Rated voltage	24V	
	空载电压/No-load Voltage	≤24.3V	
	工作电压范围/working voltage range	24V	
	额定电流规格/Rated current specification	2000MA	
	电流精度/Current precision	(+/-)5%	
	额定功率/Rated power	48W	
	开机延时/Setup Time	≤0.5s/120VAC	
	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℃/20~95%	
	储存温度,湿度要求 Storage Temp./RH	-40~+80℃/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	EN55015, EN61000-3-2	
	电磁抗干扰Electromagnetic Susceptibility	EN61000-4-2. 3. 4. 5. 6. 8. 11. EN61547	
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	155*43*26	
	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 (%)
277V	199.90	53.69	0.969	23.828	2000	47.66	88.8%
	152.30	40.67	0.963	23.945	1500	35.92	88.3%
	128.00	33.94	0.956	23.960	1246	29.85	88.0%
	65.77	14.89	0.816	24.000	500	12.00	80.6%
	35.44	7.00	0.722	24.030	200	4.81	68.7%
240V	222.40	53.16	0.974	23.826	2000	47.65	89.6%
	168.60	40.19	0.972	23.947	1500	35.92	89.4%
	141.70	33.66	0.968	23.956	1250	29.95	89.0%
	66.16	14.61	0.901	24.000	500	12.00	82.1%
	38.19	6.86	0.740	24.024	200	4.80	70.0%

120V	461.00	54.74	0.986	23.749	2000	47.50	86.8%
	343.10	40.71	0.985	23.867	1500	35.80	87.9%
	284.20	33.79	0.984	23.890	1250	29.86	88.4%
	122.00	13.99	0.950	23.940	500	11.97	85.6%
	56.30	6.56	0.967	24.009	200	4.80	73.2%

调光测试效果Dimming effect

(欧规240V品牌调光器测试/European standard 240V brand dimmer test)

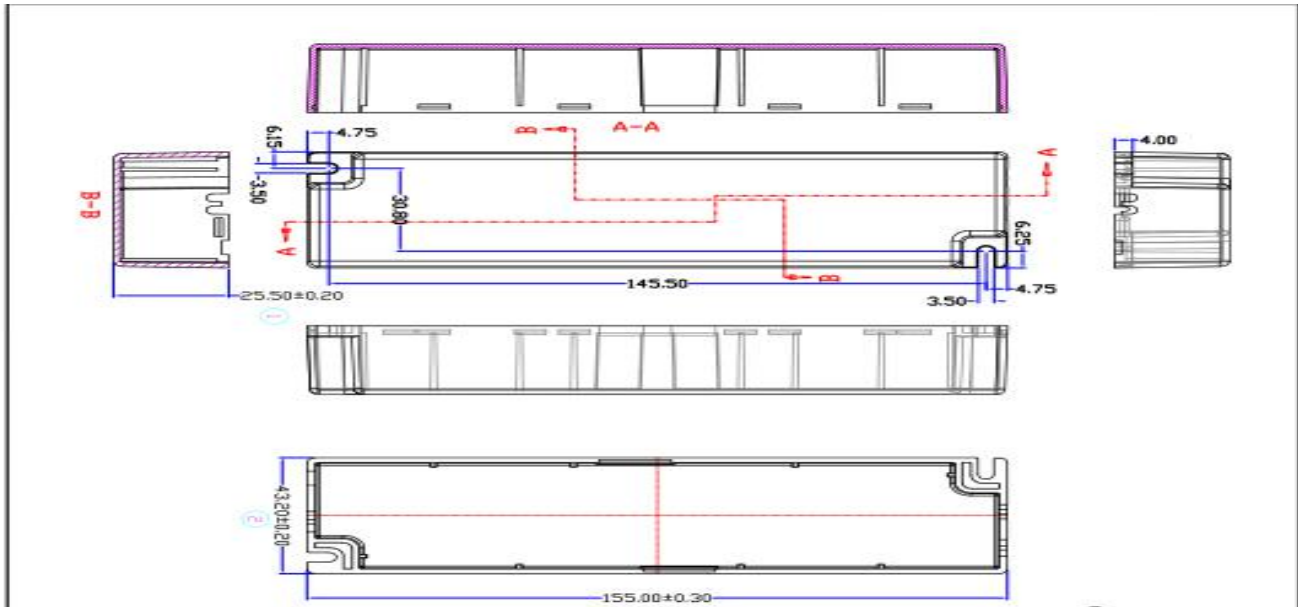
编号 NO	调光器型号 Dimmer Type	最小电流 Min current (mA)	最大电流 Max current(mA)	调光比 Dimming ratio	调光效果 Dimming effect
1	SNaider 15-450W	300MA	2000MA	15-100%	OK
2	JUNON 300W	300MA	2000MA	15-100%	OK
3	美尚 1000W	449MA	2000MA	22-100%	OK
4	TENGEN V5-TG/G	323MA	2000MA	16-100%	OK
5	LEVITON 277V 600VA	1000MA	2000MA	50-100%	OK
6	CLIPSAL 500VA	0MA	2000MA	0-100%	OK
7	EUCHIPS	780MA	2000MA	39-100%	OK
8	TRJ 1000W	260MA	2000MA	13-100%	OK
9	TRJ 630W	296MA	2000MA	15-100%	OK
10	SHYUSLC	104MA	2000MA	5-100%	OK

调光测试效果Dimming effect

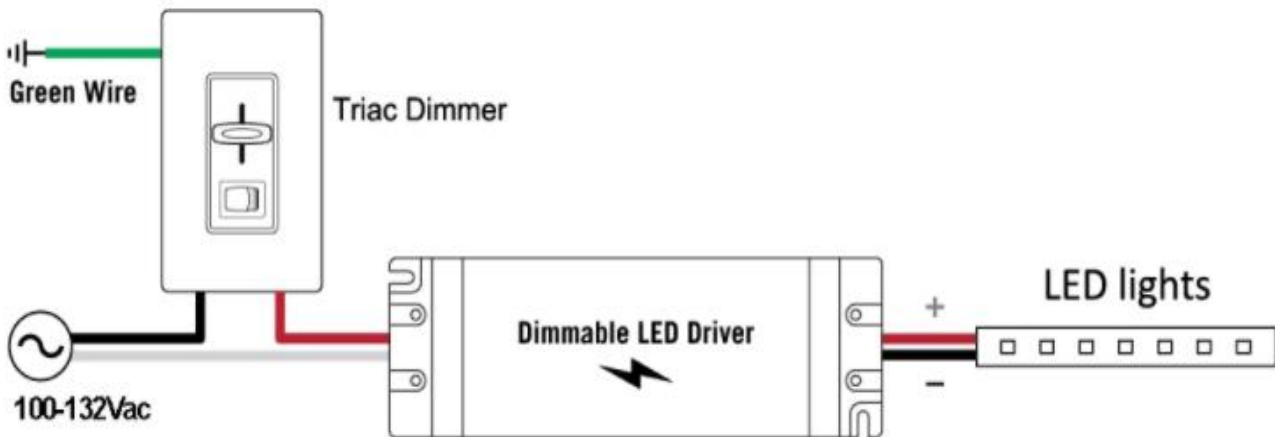
(美规120V品牌调光器测试/Testing of American Standard 120V dimmer)

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	LISTEO 23TE	0MA	2000MA	0-100%	OK
2	LC211	33MA	2000MA	2-100%	OK
3	LUTRON TTCL-100	109MA	2000MA	5-100%	OK
4	TLC-0005	20MA	2000MA	1-100%	OK
5	TLC-004	75MA	2000MA	4-100%	OK
6	TLC-0003	74MA	2000MA	4-100%	OK
7	LEVLTON 150W	339MA	2000MA	17-100%	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240V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 240VAC 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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