

## —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%



## 产品参数/Specification

Model		LKAD039V-T	备注
输入 Input	输入电压范围/Input Voltage range	120-277V	
	频率/Frequency	50/60hz	
	谐波/THD	≤15%	
	功率因数/Power factor	0.999/120VAC	
	输入电流 Input current (mA)	1750MA/120VAC	
	待机功耗 stand_by power	≅ 3.5W	
	浪涌电流 Inrush Current (Max.)	≤68A@277VAC	
	漏电流 Leakage Current	<1MA/277VAC	
输出 Output	额定电压/Rated voltage	24V	
	空载电压/No-load Voltage	≅ 24.5V	
	工作电压范围/working voltage range	23.5-24.2V	
	可选择电压规格/selectable voltage specs	12V/24V/48V	
	电压精度/Current tolerance	(+/-) 1%	
	额定功率/Rated power	42W	
	开机延时/Setup Time	≤0.5s/120VAC	
	输出线性调整率Output Line Regulation	±3%	
	温度漂移temperature drift	±3%	
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 Requirement	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%	

耐压 withstand voltage	3750VAC/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	
质保说明Warranty instructions	5年/5 years	
尺寸/Size	135x45x27mm	
重量/Netweight	/	

**注意事项 matters needing attention**

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

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.

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

**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 (%)
120V	433.40	51.33	0.999	24.16	1750	42.28	82.4%
	375.00	44.44	0.999	24.17	1500	36.26	81.6%
	321.00	38.03	0.999	24.18	1250	30.23	79.5%
240V	212.20	49.63	0.985	24.17	1750	42.30	85.2%
	184.70	43.09	0.979	24.18	1500	36.27	84.2%
	156.60	36.37	0.979	24.18	1250	30.23	83.1%
277V	182.00	49.59	0.979	24.17	1750	42.30	85.3%
	158.70	43.02	0.970	24.18	1500	36.27	84.3%
	135.90	36.53	0.965	24.19	1250	30.24	82.8%

**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	最小瓦数 Minimum wattage(W)	最大瓦数 Maximum wattage ( W)	调光比 Dimming ratio	调光器种类 The type of dimmer	备注 remarks
1	T&J 25-1000W	10.00	47.49	21.06%	Leading	p
2	Lautrupvang DK-275D	9.05	44.20	20.48%	Trailing	p
3	European-No 2	8.70	47.80	18.20%	Trailing	p
4	TENGEN V5-TG/G	10.08	48.26	20.89%	Leading	p
5	Nader	12.15	48.10	25.26%	Leading	p
6	CLIPSAL 500VA	0.16	36.80	0.42%	Leading	p
7	Midea 220V 630W	11.60	48.19	24.07%	Leading	p
8	European-No 1	3.80	48.12	7.90%	Trailing	p

9	TCL 630W 220V	0.17	48.28	0.35%	Leading	p
10	SHYUSLC UK-PRD400VA	5.60	45.00	12.44%	Trailing	p

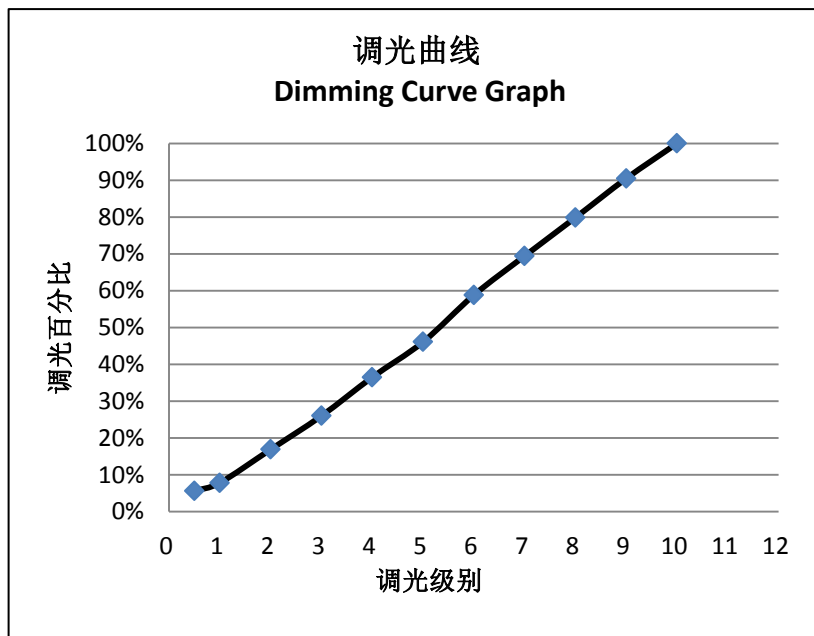
调光测试效果Dimming effect

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

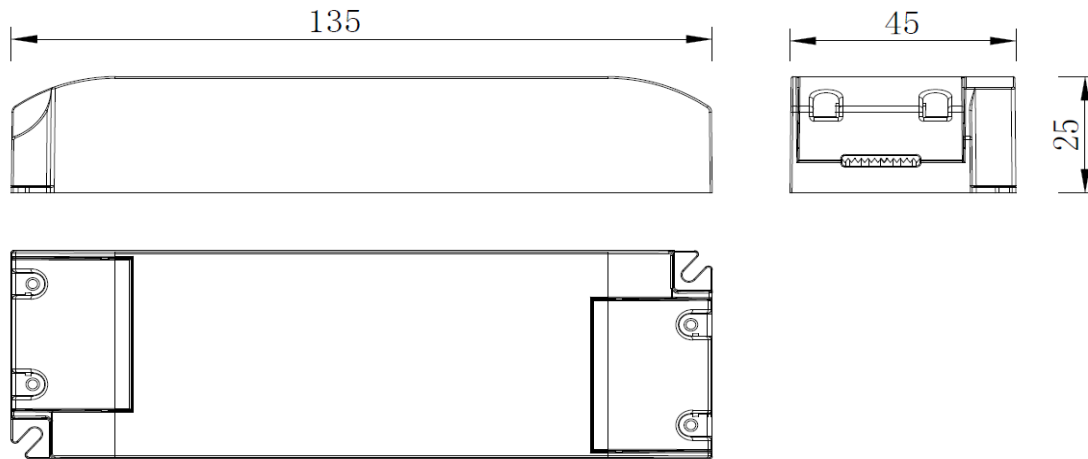
编号 NO	调光器型号 Dimmer Type	最小瓦数 Minimum wattage(W)	最大瓦数 Maximum wattage ( W)	调光比 Dimming ratio	调光器种类 The type of dimmer	备注 remarks
1	Lutron SB-1 600W	0.16	42.85	0.37%	Leading	P
2	LC211	4.20	41.25	10.18%	Leading	P
3	Lutron TTCL100	2.30	42.30	5.44%	Leading	P
4	TLC-0005	3.30	41.80	7.89%	Trailing	P
5	PEC-002	5.30	43.40	12.21%	Leading	P
6	TLC-0003	5.20	43.59	11.93%	Leading	P
7	LEVLTON 150W	2.44	37.52	6.50%	Leading	P
8	PanaSonic Wn3020	3.50	39.00	8.97%	Leading	P

0-10V调光测试数据Dimming test data

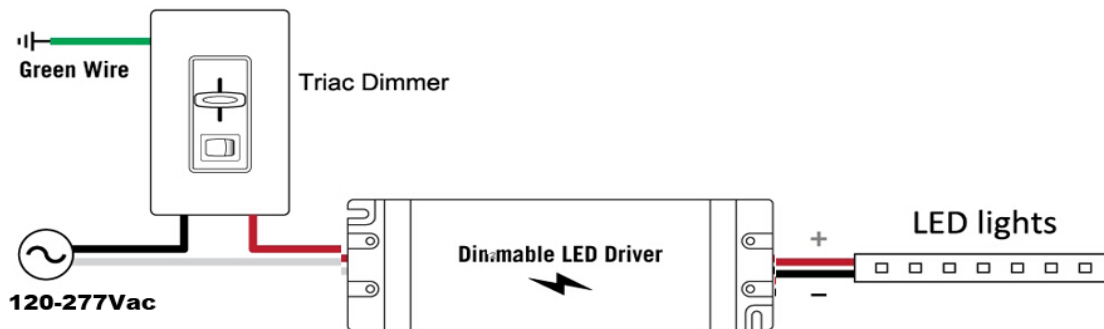
输入电压 Input voltage ( Vac)	输入电流 Input current ( mA)	输入功率 Input power ( W)	功率因数 PF	输出电压 Output voltage ( Vdc)	调光比 Dimming ratio	调光电压 Dimming voltage ( V)	备注 remarks
120	32.64	2.78	0.681	0.00	5.62%	0.5	P
120	38.43	3.88	0.803	13.23	7.84%	1	P
120	70.11	8.36	0.953	14.47	16.90%	2	P
120	104.90	12.87	0.981	15.72	26.02%	3	P
120	144.70	18.06	0.991	17.08	36.51%	4	P
120	182.60	22.80	0.994	18.30	46.09%	5	P
120	232.80	29.09	0.998	19.48	58.80%	6	P
120	274.90	34.35	0.998	20.62	69.44%	7	P
120	316.50	39.51	0.998	21.88	79.87%	8	P
120	360.10	44.76	0.998	23.11	90.48%	9	P
120	396.90	49.47	0.972	24.21	100.00%	10	P



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230V输入，额定负载和在周围温度为25℃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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