



# 0-10V Dimmable LED Drivers—LKAD050V-C

## —产品特性/Feature—

- 120-240VAC (50/60Hz) 输入 / 120-240VAC (50/60Hz) Input
- 隔离高PF无频闪方案，。采用最新的调光信号与主输出的隔离调光认证方案 No stroboscopic scheme for high PF isolation, . Using the latest dimming signal and main output isolation dimming certification scheme
- 高效率、高功率因素，高稳定性，高调光比 High efficiency, high power factor, high stability, high light ratio
- 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;
- 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;
- 实现了真正的0-10V调光，全程无频闪，兼容市场上所有的调光控制系统。 It realizes true 0-10V dimming, no flicker in the whole process, and is compatible with all dimming control systems in the market.
- 3年质保期 / 3 years warranty.



## 产品参数/Specification

Model		LKAD050V-C	备注
输入 Input	输入电压范围/Input Voltage range	120-240V	
	频率/Frequency	50/60hz	
	谐波/THD	≤10%/240VAC	
	功率因数/Power factor	0.58/240VAC	
	输入电流 Input current (mA)	389MA/240V	
	待机功耗 stand_by power	≤1W	
	浪涌电流 Inrush Current (Max. )	≤30A@240VAC	
	漏电流 Leakage Current	<1MA/240V	
输出 Output	额定电压/Rated voltage	12V	
	空载电压/No-load Voltage	≤12.6V	
	工作电压范围/working voltage range	12V	
	可选择电流规格 /selectable current	4000MA	
	电流精度/Current precision	(+/-) 2%	
	额定功率/Rated power	48W	
	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%	

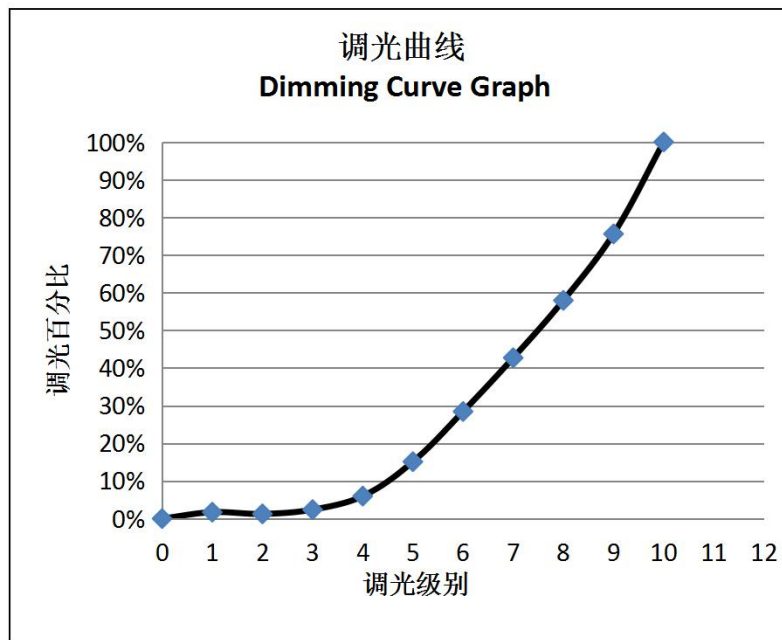
保护特性	开路保护Output open circuit protection	有/Enable	
	短路保护Short Circuit Protection	打嗝模式/Hiccup mode	
使用环境 Environment Requirement	工作温度/湿度要求 Operating Temp./RH	-30~+45℃/20~95%	
	储存温度,湿度要求 Storage Temp./RH	-40~+80℃/10~95%	
安全和电磁兼容 Safety & EMC	认证编号/Certificate	符合CE/ meet CE	
	耐压 withstand voltage	3750VAC/60S	
	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	IEC61347-2-13 EN6147-2-13	
	电磁干扰electromagnetic interference	Fcc Part15B	
	电磁抗干扰 Electromagnetic	Fcc Part15B	
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	140*47*30MM	
	重量/Netweight	100g	
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

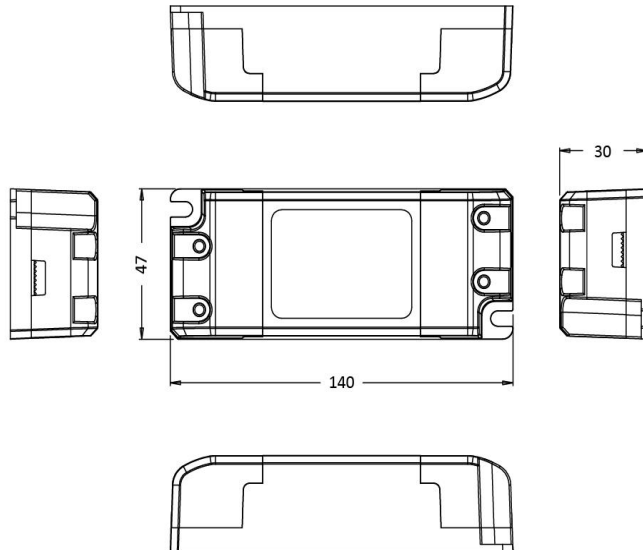
输入电压 Input voltage ( Vac)	输入电流 Input current ( mA)	输入功率 Input power ( W)	功率因数 PF	输出电压 Output voltage ( Vdc)	输出电流 Output current ( mA)	输出功率 Output Power ( W)	转换效率 Efficiency (%)
240V	388.90	55.20	0.581	12.175	4000	48.70	88%
	299.70	41.17	0.563	12.192	3000	36.58	89%
	213.90	27.95	0.537	12.212	2000	24.42	87%
	121.20	14.42	0.485	12.231	1000	12.23	85%
	71.06	7.39	0.420	12.241	500	6.12	83%
	32.83	0.41	0.052	12.251	0	0.00	0%
120V	806.70	55.98	0.568	12.170	4000	48.68	87%
	610.80	41.71	0.560	12.190	3000	36.57	88%
	417.60	27.63	0.543	12.210	2000	24.42	88%

120V	223.30	13.80	0.506	12.230	1000	12.23	89%
	126.00	7.25	0.471	12.240	500	6.12	84%
	20.50	0.55	0.219	12.250	0	0.00	0%

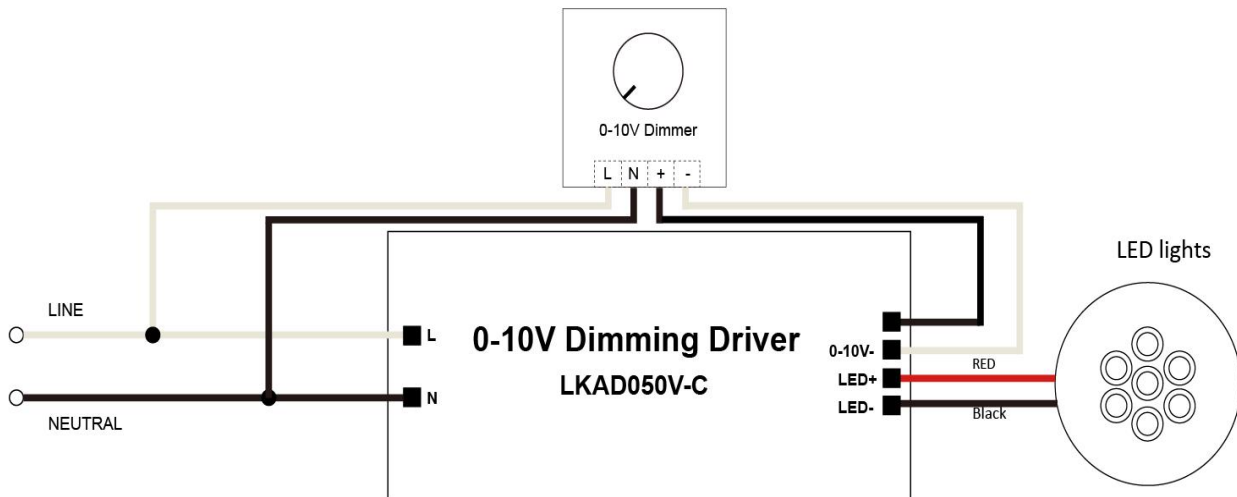
输入电压 Input voltage ( Vac)	输入电流 Input current ( mA)	输入功率 Input power ( W)	功率因数 PF	输出电压 Output voltage ( Vdc)	输出电流 Output current ( MA)	输出功率 Output Power ( W)	调光电压 Dimming voltage ( V)	百分比	
240V	32.80	0.41	0.051	0.000	0.00	0.00	0V	0.00%	0
240V	33.65	0.78	0.095	6.060	75.00	0.45	1V	1.70%	1
240V	35.30	1.25	0.145	5.840	55.00	0.32	2V	1.25%	2
240V	38.02	1.89	0.203	6.170	105.00	0.65	3V	2.38%	3
240V	50.10	4.03	0.329	6.000	263.00	1.58	4V	5.97%	4
240V	83.07	9	0.443	5.600	666.00	3.73	5V	15.11%	5
240V	137.60	16.96	0.507	6.070	1253.00	7.61	6V	28.43%	6
240V	182.80	25	0.530	7.130	1882.00	13.42	7V	42.70%	7
240V	256.20	34.62	0.553	8.390	2554.00	21.43	8V	57.94%	8
240V	329.20	45.23	0.569	9.900	3332.00	32.99	9V	75.59%	9
240V	419.30	60.04	0.586	12.040	4408.00	53.07	10V	100.00%	10



## 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°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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