



# Dimming Power LED—LKAD021D-C

## —产品特性/Feature—

- 100-240VAC (50/60Hz) 输入 / 100-240VAC (50/60Hz) Input
- 隔离高PF无频闪方案, Isolated high PF no stroboscopic 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;
- 遥控控制性能稳定, 任何角度方向都可以控制。控制距离在空旷场地可以达35米, 在有障碍物的地方可以达到15-20米。  
Remote control performance is stable, any angle direction can be controlled. The control distance can be up to 35 meters in open field and 15-20 meters in places with obstacles.
- 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		LKAD021D-C	备注
输入 Input	输入电压范围/Input Voltage range	100-240V	
	频率/Frequency	50/60hz	
	谐波/THD	≤10%	
	功率因数/Power factor	0.98/240VAC	
	输入电流 Input current (mA)	81MA/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	42V	
	空载电压/No-load Voltage	≤50V	
	工作电压范围/working voltage range	0-42V	
	可选择电流规格/selectable current specs	350MA ± 18MA	
	电流精度/Current precision	(+/-) 5%	
	额定功率/Rated power	20W	
	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%	

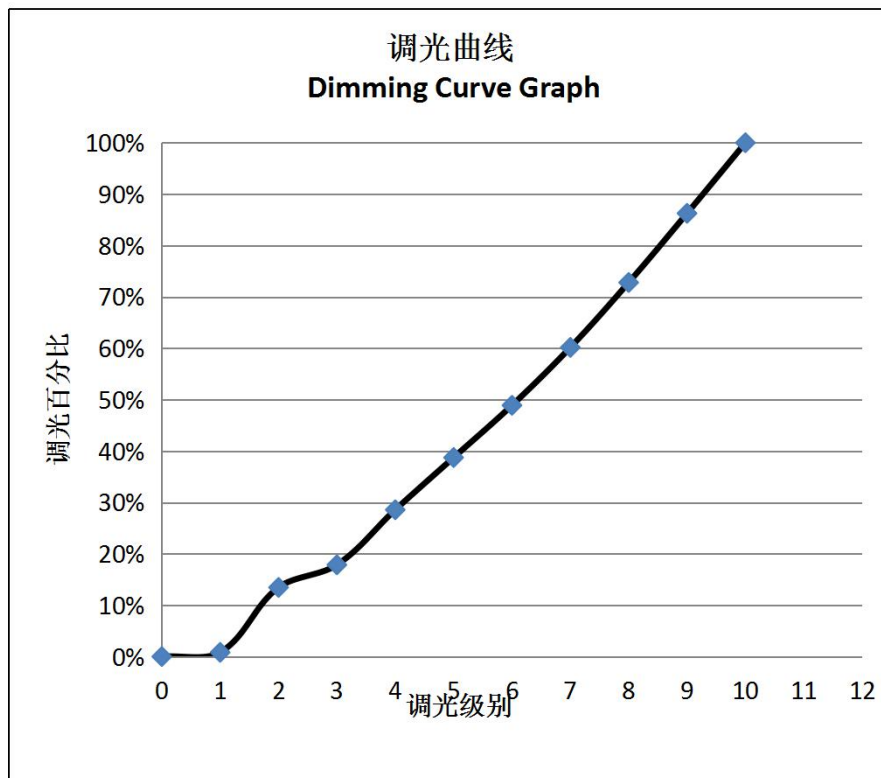
保护特性	开路保护Output open circuit protection	有/Enable	
	短路保护Short Circuit Protection	打嗝模式/Hiccup mode	
使用环境 Environment Requirement	工作温度/湿度要求 Operating Temp./RH	-30~+45°C/20~95%	
	储存温度,湿度要求 Storage Temp./RH	-40~+80°C/10~95%	
安全和电 磁兼容 Safety & EMC	认证编号/Certificate	符合CE/ meet CE	
	耐压 withstand voltage	3750VAC/60S	
	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	
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*195*30*21	
	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

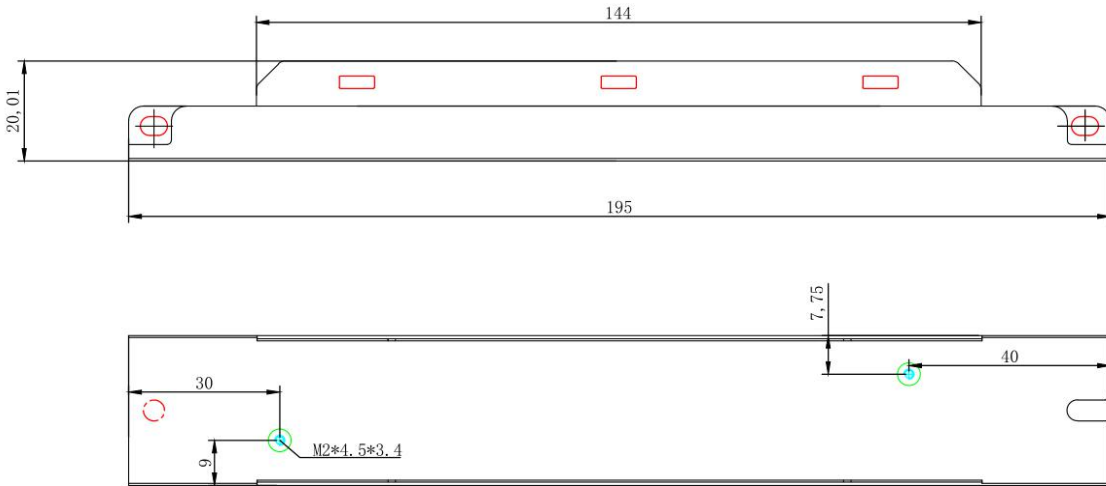
输入电压 Input voltage ( Vac)	输入电流 Input current ( mA)	输入功率 Input power ( W)	功率因数 PF	输出电压 Output voltage ( Vdc)	输出电流 Output current ( mA)	输出功率 Output Power ( W)	转换效率 Efficiency (%)
100V	190.00	19.20	0.990	45.00	356	16.02	83.4%
120V	157.00	18.85	0.990	45.00	356	16.02	85.0%
180V	103.00	18.50	0.990	45.00	355	15.98	86.4%
230V	81.00	18.30	0.980	45.00	353	15.87	86.7%
240V	77.00	18.30	0.980	45.00	353	15.89	86.8%

## 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)	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	3.50	0.40	0.55	0	0.00	0.00	0.7V	0.00%	0
240V	6.10	0.85	0.59	35	3.00	0.11	1V	0.82%	1
240V	15.60	3.00	0.83	38	49.00	1.86	2V	13.46%	2
240V	18.50	3.70	0.87	38	65.00	2.47	3V	17.86%	3
240V	25.70	5.40	0.91	39	104.00	4.06	4V	28.57%	4
240V	32.70	7.20	0.95	39.8	141.00	5.61	5V	38.74%	5
240V	40.10	8.90	0.96	40.3	178.00	7.17	6V	48.90%	6
240V	48.50	10.80	0.97	40.8	219.00	8.94	7V	60.16%	7
240V	58.60	13.20	0.98	41.3	265.00	10.94	8V	72.80%	8
240V	70.00	15.80	0.98	41.8	314.00	13.13	9V	86.26%	9
240V	80.00	18.30	0.99	42.1	364.00	15.32	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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