

Triac Dimmable LED Driver—LKAD023D



—产品特性/Feature—

- 200-240VAC (50/60Hz) 输入 / 200-240VAC (50/60Hz) Input
- 隔离方案, (前切/后切/MOS) 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;
- 变压器铜丝F级, 耐高温155℃ (同行120℃) / The copper wire of transformer is Grade F, resist high-temperature 155℃ (usually 120℃);
- 独立外置, Class II 恒流类型 / independent, Class II constant current type;
- 短路保护, 过流保护, 过压保护, 过温保护 / short circuit/over load/over current/ over temperature protection;
- 100%满载老化测试 / 100% full load burn-in test;
- 符合CE/SAA/CCC/C-TICK认证 / Meet CE/SAA/CCC/C-Tick
- 防护等级 IP20 / degree of protection IP20;
- 适用于面板灯/天花灯/筒灯等照明应用 / suitable for LED lighting, ceiling light, down light and panel light;
- 3年质保期 / 3 years warranty.



产品参数/Specification

Model		LKAD023D
输入 Input	AC电压范围/AC Voltage range	200-240Vac
	频率/Frequency	50/60Hz
	谐波/THD	<35%
	功率因数/Power factor	>0.9
输出 Output	额定电压/Rated voltage	230VAC
	空载电压/No-load Voltage	<45V
	DC电压范围/DC voltage range	26-41V
	DC电流范围/DC current range	430-470mA
	电流精度/Current precision	(+/-) 6%
	额定功率/Rated power	20W
	输出纹波	<100mV
	开机延时/Setup Time	≤0.5s/230VAC
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	认证编号/Certificate	符合CE
其他	尺寸/Size	L115*W45*H27mm
	重量/Net weight	109g

测试数据/Test data

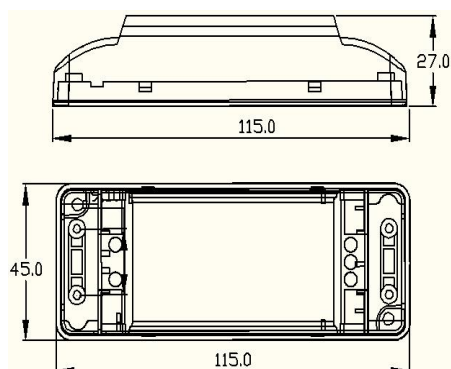
输入电压 Input voltage (Vac)	输入电流 Input current (mA)	输入功率 Input power (W)	功率因数 PF	输出电压 Output voltage (Vdc)	输出电流 Output current (mA)	输出功率 Output Power (W)	转换效率 Efficiency (%)	谐波系数 THD
200	83.50	15.32	0.920	26.00	445	11.57	75.5%	
	98.67	18.90	0.962	36.00	444	15.98	84.6%	
	111.70	21.18	0.952	41.00	435	17.84	84.2%	
220	75.20	15.36	0.925	26.00	460	11.96	77.9%	
	92.30	19.11	0.937	36.00	454	16.34	85.5%	
	104.40	21.31	0.924	41.00	445	18.25	85.6%	
240	70.20	15.36	0.911	26.00	469	12.19	79.4%	
	89.05	19.32	0.902	36.00	460	16.56	85.7%	
	100.80	21.59	0.890	41.00	453	18.57	86.0%	

调光测试效果Dimming effect

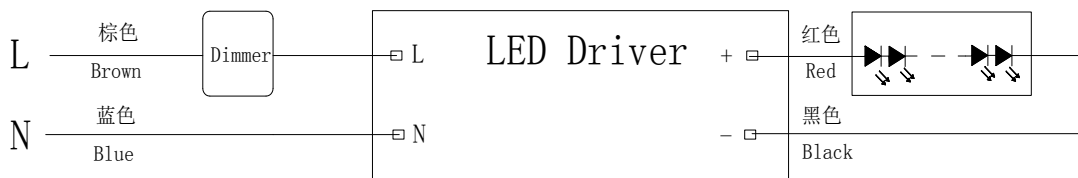
(负载36.4V测试/Test load voltage 36.4V)

编号 NO	调光器型号 Dimmer type	最小电流 Min current	最大电流 Max current(mA)	调光比 Dimming ratio	调光效果 Dimming effect
1	CLIPSAL (32E450UDM)	39.00	445	9-100	流畅, 无闪烁, 相机看无频闪
2	WK-11501	14.00	441	3-100	流畅, 无闪烁, 相机看无频闪
3	亿可	0	443	0-100	流畅, 无闪烁, 相机看无频闪
4	美尚	0	443	0-100	流畅, 无闪烁, 相机看无频闪
5	CLIPSAL (32E450LM)	30	443	7-100	流畅, 无闪烁, 相机看无频闪
6	美的	12	443	3-100	流畅, 无闪烁, 相机看无频闪
7	威斯堡电气	16	443	4-100	流畅, 无闪烁, 相机看无频闪
8	曼科	16	443	4-100	流畅, 无闪烁, 相机看无频闪

产品尺寸图/ Product Size Diagram



产品接线示意图/ Product Connection Diagram



备注/Note:

- 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;
- 本驱动电源是作为一个部件与最终的设备结合进行操作的。因为EMC的性能在电源完全安装后会受到影响，因此最终设备制造商在完成安装后必须重新获取EMC指示认定。
The LED driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 可以直接与LEDs连接，但不适宜与额外的驱动电源使用；
Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
- 为了满足在灯具安装中最后的ErP校准要求，本驱动电源只能在一个不是永久地连接在交流干线的开关后面使用。
To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connect to the mains.

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