



領冠電源

# Dimmable LED Driver—LKAD012D



## —产品特性/Feature—

- 90-135VAC(50/60Hz) 输入/ 90-135VAC(50/60Hz) Input
- 隔离方案,前切(或后切)可控硅调光,调光非常流畅/Isolated, leading (or trailing) triac dimming, dimming much smoothly;
- 高效率、高功率因素,稳定性好/ Hight efficiency, hight 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;
- 通过UL、FCC认证/UL、FCC approved;
- 防护等级 IP67/ degree of protection IP67;
- 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	LKAD012D	
输入 Input	AC电压范围/AC Voltage range	90-135V
	频率/Frequency	50/60hz
	谐波/THD	
	功率因数/Power factor	0.99/110VAC
输出 Output	额定电压/Rated voltage	38V
	空载电压/No-load Voltage	46V
	DC电压范围/DC voltage range	30-45V
	DC电流范围/DC current range	330-350mA
	电流精度/Current precision	(+/-)3%
	额定功率/Rated power	13W
	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	UL:E478938
		FCC:WTD14S0918346E
其他	尺寸/Size	Dia65xH26mm
	重量/Net weight	74g

测试数据/Test data

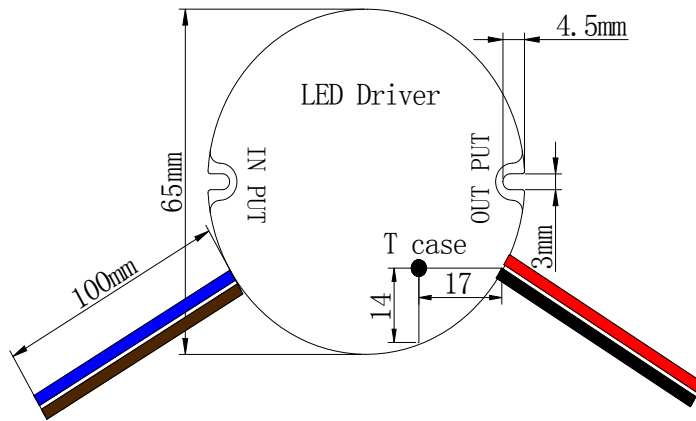
输入电压 Input voltage (Vac)	输入电流 Input current (mA)	输入功率 Input power (W)	功率因数 PF	输出电压 Output voltage (Vdc)	输出电流 Output current (mA)	输出功率 Output Power (W)	转换效率 Efficiency (%)	谐波系数 THD
90	150.00	12.88	0.99	30.00	343	10.29	79.9%	
	204.00	17.40	0.99	40.00	334	13.36	76.8%	
	228.00	19.45	0.99	45.00	328	14.76	75.9%	
110	113.30	12.19	0.99	30.00	340	10.20	83.7%	
	148.00	16.00	0.99	40.00	333	13.32	83.3%	
	165.80	17.95	0.99	45.00	329	14.81	82.5%	
135	90.00	11.92	0.98	30.00	338	10.14	85.1%	
	117.00	15.60	0.99	40.00	330	13.20	84.6%	
	130.00	17.40	0.99	45.00	327	14.72	84.6%	

调光测试效果Dimming effect

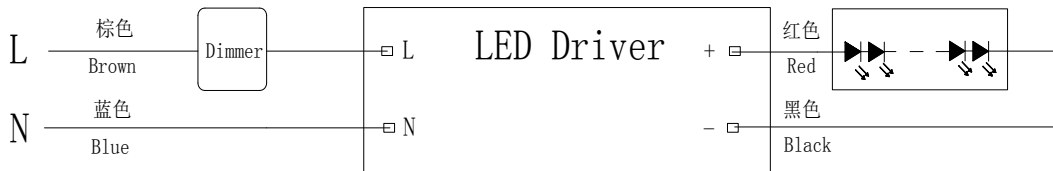
(负载12串37.3V测试/Test load 12S-voltage 37.3V)

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	威斯堡 (230V~)	0.00	345	0-100	OK
2	MANK曼科	0.00	347	0-100	OK
3	T & J(200-240V) (25-630W)	0.00	349	0-100	OK
4	科本电工	0.00	349	0-100	OK
5	TCL国际电工(K4.0)	0.00	346	0-100	OK
6	曼盈电工	0.00	345	0-100	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120V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 120VAC input, rated load and 25 of ambient temperature;
2. 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.
3. 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.
4. 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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