

LED Intelligent Driver

- Support Leading edge (Triac), Trailing edge (ELV) and Push Dimmer.
- Built-in SCM, dimming curve and smoothing time can be customized.
- Dimming range from 0-100%, LED start at 0.1% possible.
- 0~100% flicker-free, achieve the level of high frequency exemption assessment.
- Short circuit / Over-heat / Over load / Over voltage protection, recover automatically.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I/II/III.

Dimmable:

Max: 0.1-100%

Flicker-free

Achieve high frequency exemption assessment level.



SELV    **RoHS** 



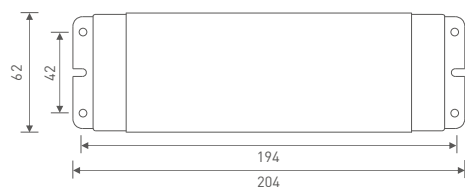
Specification

Model		TD-75-12-E1M1	TD-75-24-E1M1
OUTPUT	Output Voltage	12Vdc	24Vdc
	Output Voltage Range:	12Vdc $\pm$ 0.5Vdc	24Vdc $\pm$ 0.5Vdc
	Output Current	Max. 6.25A	Max. 3.12A
	Output Power	Max. 75W	
	Output Power Range	0~75W	
	Strobe Level	High frequency exemption assessment level.	
	Dimming Range:	0~100%, dimming depth: Max. 0.1%	
	Overload Power Limitation	$\geq 102\%$	
	Ripple & Noise	$\leq 200\text{mV}$	
	PWM Dimming Frequency	$\leq 3600\text{Hz}$	
INPUT	Dimming Interface	Triac/ELV, Push DIM	
	Input Voltage	200-240Vac	
	Frequency	50/60Hz	
	Input Current	230Vac $\leq 0.8\text{A}$	
	Efficiency(typ.)	85%	87%
	Inrush Current(typ.)	Cold start 60A at 230Vac	
	Anti Surge	L-N: 1kV L/N-G: 2kV	
	Leakage Current	I/P-O/P: $<0.5\text{mA}/230\text{Vac}$, I/P-GND: $<0.75\text{mA}/230\text{Vac}$	
ENVIRONMENT	Working Temperature	ta: -30°C ~ 60°C tc: 85°C	ta: -30°C ~ 60°C tc: 80°C
	Working Humidity	20 ~ 95%RH, non-condensing	
	Storage Temp., Humidity	-40°C ~ 80°C, 10~95%RH	
	Temp. Coefficient	$\pm 0.03\%/^{\circ}\text{C}$ (0-50°C)	
	Vibration	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.	
PROTECTION	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature $\geq 110^{\circ}\text{C}$. And the output current will be restored automatically when the temperature comes normal.	
	Over Load Protection	Power limit when rated power $\geq 102\%$, auto recovers.	
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.	
	Over Voltage Protection	Shut down the output when non-load voltage $\geq 13\text{V}$, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage $\geq 26\text{V}$, re-power on to recover after fault condition is removed.
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac I/P-GND: 1800Vac	
	Isolation Resistance	I/P-O/P: 100M Ω /500VDC/25°C/70%RH	
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13	
	Strobe Test Standard	IEEE 1789	
OTHERS	Dimension	204 $\times$ 62 $\times$ 34mm(L $\times$ W $\times$ H)	
	Packing	206 $\times$ 64 $\times$ 39mm(L $\times$ W $\times$ H)	
	Weight[G.W.]	440g $\pm$ 10g	

* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The instantaneous surge current will be several times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hicups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), then we can prepare the special programs.

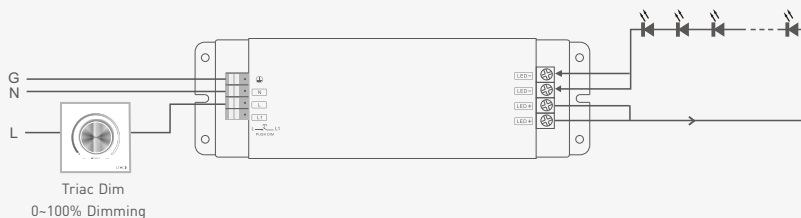
Dimensions

Unit: mm

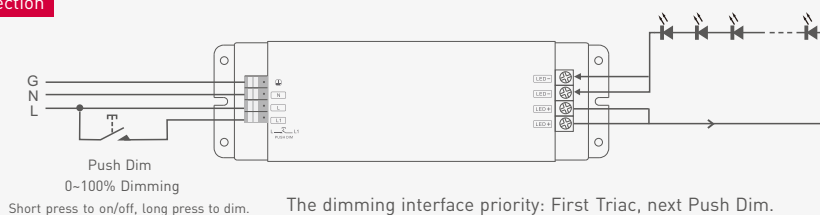


Wiring diagram

Triac Connection



Push Dim Connection



The dimming interface priority: First Triac, next Push Dim.

Push Dimming



Reset Switch

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

*No further notice if any changes in the manual.
Product function depends on the goods.
Please feel free to contact our official distributor if any question.

LED 智能调光驱动器

- 支持前沿 (Triac), 后沿(ELV)和Push按键调光
- 内置单片机, 可定制调光曲线、通电亮起渐变时间
- 调光范围: 0~100%, LED从0.1%开始调光
- 0~100%全程无频闪, 达到豁免考核级别
- 短路、过温、过载、过压保护, 可自动恢复
- 符合SELV安全特低电压标准
- 适合室内 I、II、III类灯具应用

Dimmable:
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Max: 0.1-100%

无频闪
高频豁免考核级别



SELV



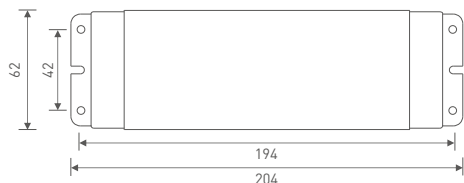
技术参数

型号		TD-75-12-E1M1	TD-75-24-E1M1
输出	输出电压	12Vdc	24Vdc
	输出电压范围	12Vdc $\pm$ 0.5Vdc	24Vdc $\pm$ 0.5Vdc
	输出电流	Max. 6.25A	Max. 3.12A
	输出功率	Max. 75W	
	输出功率范围	0~75W	
	频闪级别	高频豁免考核级别	
	调光范围	0~100%, 调光深度: Max. 0.1%	
	过功率限制	$\geq 102\%$	
	纹波与噪声	$\leq 200\text{mV}$	
	PWM调光频率	$\leq 3600\text{Hz}$	
输入	调光接口	Triac/ELV, Push DIM	
	输入电压	200-240Vac	
	频率范围	50/60Hz	
	输入电流	230Vac $\leq$ 0.8A	
	效率 (Typ.)	85%	87%
	浪涌电流	冷启动60A/230Vac	
	抗浪涌	L-N: 1kV L/N-G: 2kV	
	漏电流	输入对输出 $<0.5\text{mA}/230\text{Vac}$, 输入对地 $<0.75\text{mA}/230\text{Vac}$	
环境	工作温度	ta: -30°C ~ 60°C tc: 85°C	ta: -30°C ~ 60°C tc: 80°C
	工作湿度	20 ~ 95%RH, 无冷凝	
	储存温度 湿度	-40°C ~ 80°C, 10~95%RH	
	温度系数	$\pm 0.03\%/^{\circ}\text{C}$ [0-50°C]	
	耐振动	10-500HZ, 2G 12分钟/周期, X,Y,Z轴各72分钟。	
保护	过温保护	根据PCB温度超标情况($\geq 110^{\circ}\text{C}$), 智能调节电流输出或关闭, 可自动恢复。	
	过载保护	负载电流 $\geq 102\%$, 关闭输出, 可自动恢复	
	短路保护	输出线路短路自动关闭, 可自动恢复	
	过压保护	空载电压 $\geq 13\text{V}$ 关闭输出, 异常排除后上电恢复	空载电压 $\geq 26\text{V}$ 关闭输出, 异常排除后上电恢复
安规和电磁规格	耐压	输入对输出: 3750Vac 输入对地: 1800Vac	
	绝缘阻抗	输入对输出: 100M Ω /500VDC/25°C/70%RH	
	安全规范	IEC/EN61347-1, IEC/EN61347-2-13	
	频闪测试标准	IEEE 1789	
其他	产品尺寸	204 $\times$ 62 $\times$ 34mm(L $\times$ W $\times$ H)	
	包装尺寸	206 $\times$ 64 $\times$ 39mm(L $\times$ W $\times$ H)	
	产品重量	440g $\pm$ 10g	

* 本款驱动器适合连接电阻限流的LED灯具 (如LED灯条)。如果连接内置恒流IC限流的灯具, 会产生几十倍的瞬间浪涌电流, 导致驱动器会执行过载保护 (打嗝频闪)。下单时这类内置恒流IC限流的灯具需要注明 (如MR16灯杯、地埋灯、洗墙灯、恒流硬灯条等), 以便烧写特殊程序。

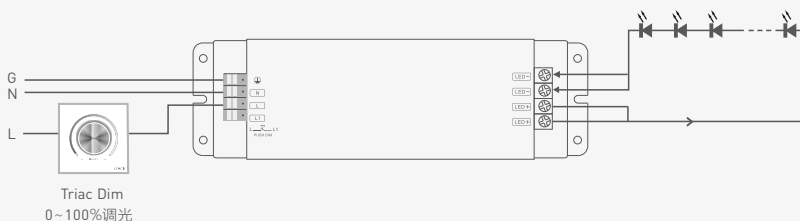
尺寸图

单位：mm



连接应用图

Triac连接方式



Push Dim 连接方式



Push Dimming



复位开关

- 开关控制: 短按.
- 无级调光: 长按.
- 每隔一次长按，明暗度会向相反方向调整.
- 调光记忆: 当再次开关时，灯光会回到先前调整的亮度水平.

* 本说明书的内容如有变更，恕不另行通知。
若内容与您使用的功能有所不同，则以实物为准。
如有疑问，请与供应商联系。