


- 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:

 0.1%-100%

Flicker-free

Achieve high frequency exemption assessment level.



SELV



CE

RoHS



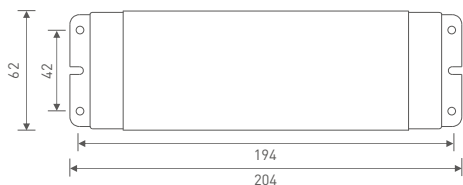
Specification

Model	TD-75-12-E1M1	TD-75-24-E1M1	
OUTPUT	Output Voltage	12Vdc	24Vdc
	Output Voltage Range:	12Vdc ± 0.5Vdc	24Vdc ± 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	≥ 102%	
	Ripple & Noise	≤ 200mV	
PWM Dimming Frequency	3600Hz		
INPUT	Dimming Interface	Triac/ELV, Push DIM	
	Input Voltage	200-240Vac	
	Frequency	50/60Hz	
	Input Current	230Vac ≤ 0.8A	
	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: <0.5mA/230Vac, I/P-GND: <0.75mA/230Vac		
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	±0.03%/°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 ≥ 110°C. And the output current will be restored automatically when the temperature comes normal.	
	Over Load Protection	Power limit when rated power ≥ 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 ≥ 13V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage ≥ 26V, 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: 100MΩ/500VDC/25°C/70%RH	
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13	
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547	
	Strobe Test Standard	IEEE-PAR 1789	
OTHERS	Dimension	204×62×34mm(L×W×H)	
	Packing	206×64×39mm(L×W×H)	
	Weight(G.W.)	440g±10g	

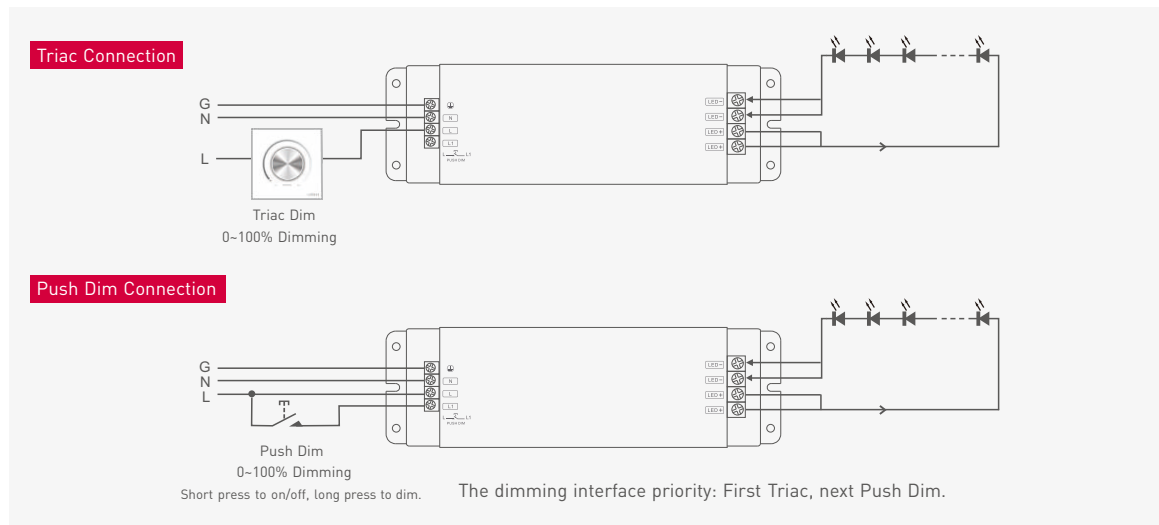
* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The instantaneous surge current will be several times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccup flickering). 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



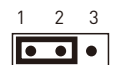
Wiring diagram



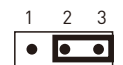
Selecting between ordinary dimmer and dimming system

Ordinary dimmer and dimming system have different dimming precision, precision of dimming system is higher. To meet customers' requirements on perfect dimming effects, LTECH has designed two programme options.

Method: Turn off the power and then remove the housing of the LED driver to find right component on the PCB. Shift system by selecting different contact pin (for installation professionals use only). Factory default as common (For ordinary dimmer).



Ordinary dimmer



Dimming system

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.