Triac Constant Voltage LED Driver

Model No.: TE-75-12 / TE-75-24

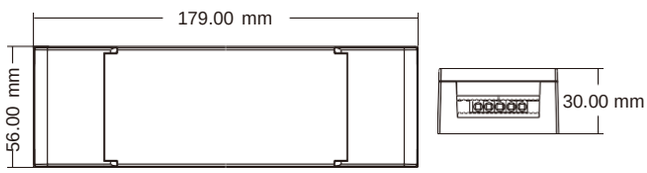
Features

- Dimming interface: Triac/ELV, AC Push-Dim
- Apply to leading edge/trailing edge Triac dimmers and dimming system.
- PWM digital dimming, no alter LED color rending index.
- 1 channel constant voltage output, Max. total output power 75W
- Over-heat / Over-load / Short circuit protection, recover automatically.
- Full protective plastic case
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty

Applications

- Suitable for LED related fixture or appliance which use LED light bar and LED tape (like LED Decoration or Advertisement devices).
- Office / Commercial / Domestic Lighting, Hotels, Retail and Display.
- Use for retrofitting upgrades & new luminaire designs.

Mechanical Structures and Installations

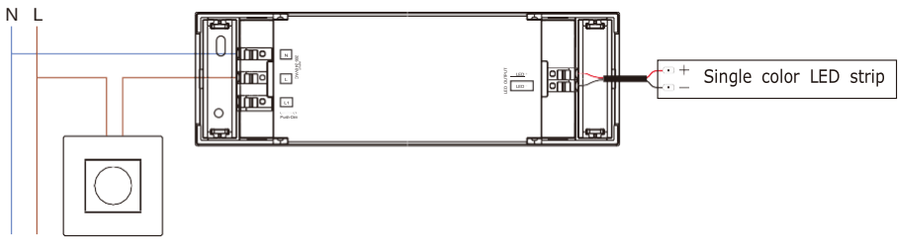


Technical Parameters

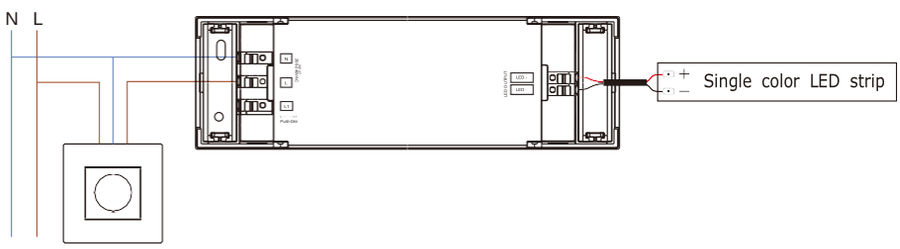
Model		TE-75-12	TE-75-24
Output	Output Voltage	12VDC	24VDC
	Output Current	Max. 6.25A	Max. 3.125A
	Output Power	Max. 75W	
	Dimming Range	0～100%	
	Ripple & Noise	<=200mV/230VAC	
	PWM Frequency	2000Hz	
Input	Input Voltage Range	200～240VAC	
	Frequency Range	50/60Hz	
	Efficiency	85%/230VAC	87%/230VAC
	Alternating Current	0.77A Max/230VAC	0.75A Max/230VAC
	Inrush Current	Cold start 27.5A at 230VAC	
	Leakage Current	<5mA	
	Standby Power	1W/230VAC	
Protection	Overload Power	Shut down output voltage, when the load≥120~150%, auto recovers.	
	Short Circuit	Shut down automatically if short circuit occurs, auto recovers.	
	Over Temperature	Intelligently adjust or turn off the output current if the PCB temp > 100℃, auto recovers.	
Environment	Woking Temperature	-20℃～50℃	
	T-case Max	80℃	
	Working Humidity	20%～90%RH, non-condensing	
	Storage Temperature/Humidity	-40℃～80℃, 10%～95%RH	
	Temperature Coefficient	±0.03%/℃ (0-50%)	
	Vibration Resistance	10-500Hz, 2G, 6min/cycle, X,Y,Z axes/2min	
	IP Rating	IP20	
Safety&EMC	Security Specifications	IEC/EN61347-1, IEC/EN61347-2-13	
	Withstand Voltage	I/P-O/P: 3750VAC	
	Insulation Resistance	I/P-O/P: 100MΩ/500VDC/25℃/70%RH	
	EMC Emission	EN61000-3-2 Class C, IEC61000-3-3	
	EMC Immunity	EN61000-4-2.3.4.5.6.8.11, EN61547	
	Certications	CE	

Wiring Diagram

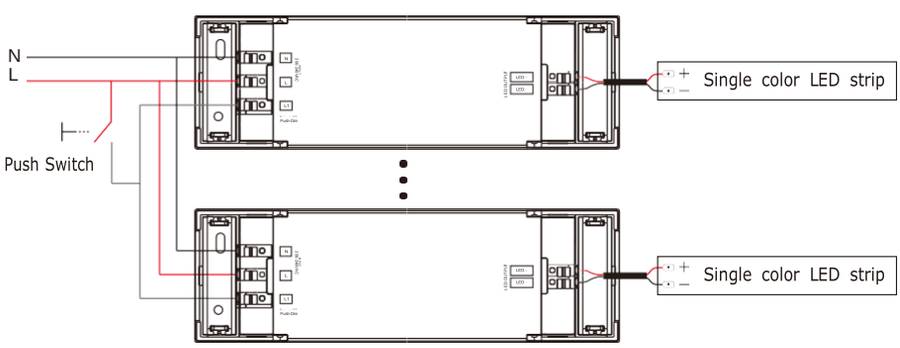
1. Connect Triac dimmer (no Neutral wire)



2. Connect Triac dimmer (with Neutral wire)



3. Connect AC Push switch.



Triac Dimming Input

While connected with a Triac dimmer, such as Lutrom, Clipsal, Dynalite dimmer, different Triac dimmers from different suppliers may have different minimum dimming levels which the driver cannot be dimmed below. To dim to 1%, please make sure the dimmer supports 1% minimum dimming level.

AC Push-Dim input

The provided AC Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switchs.

- Short press:
  Turn on or off light.
- Long press (1-6s):
  Press and hold to step-less dimming, with every other long press, the light level goes to the opposite direction.
- Dimming memory:
  Light returns to the previous dimming level when switched off and on again, even at power failure.
- Synchronization:
  If more than one LED driver are connected to the same push switch, do a long press for more than 10s,
  then the system is synchronized and all lights in the group dim up to 100%.
  This means there is no need for any additional synchrony wire in larger installations.
  We recommend the number of LED drivers connected to a push switch does not exceed 25 pieces,
  The maximum length of the wires from push to LED driver should be no more than 20 meters.

Dimming Curve