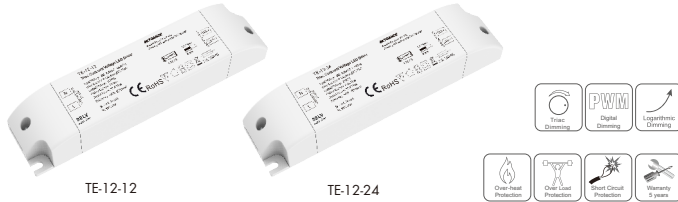


Triac Constant Voltage LED Driver

Model No.: TE-12-12, TE-12-24



Features

- Dimming interface: Triac/ELV
- Apply to leading edge/trailing edge Triac dimmers and dimming system
- PWM digital dimming, no alter LED color rendering index
- 1 channel constant voltage output, Max. total output power 12W
- Over-heat / Over-load / Short circuit protection, recover automatically
- Full protective plastic case
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty

Mechanical Structures and Installations



Technical Parameters

| Model | | TE-12-12 | TE-12-24 |
|-------------|------------------------------|---|-----------|
| Output | Output Voltage | 12VDC | 24VDC |
| | Output Current | Max. 1A | Max. 0.5A |
| | Output Power | Max. 12W | |
| | Dimming Range | 0~100% | |
| | Ripple & Noise | <=300mV / 230VAC | |
| | PWM Frequency | 500Hz | |
| Input | Input Voltage Range | 200~240VAC | |
| | Frequency Range | 50/60Hz | |
| | Efficiency | 82%/230VAC | |
| | Alternating Current | 0.13A/220VAC | |
| | Inrush Current | Cold start 1&A at 230VAC | |
| | Leakage Current | <0.5mA | |
| | No Load Power | <1W | |
| Protection | Over Load Power | Shut down the output when current load \geq 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°C, auto recovers. | |
| Environment | Working Temperature | -30°C~55°C | |
| | Tcase Max | 70°C | |
| | Working Humidity | 20%~90%RH, non-condensing | |
| | Storage Temperature/Humidity | -40°C~80°C, 10%~95%RH | |
| | Temperature Coefficient | \pm 0.03%/°C (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 | 1/PO/P: 3750VAC | |
| | Insulation Resistance | 1/PO/P: 100MΩ/500VDC/25°C/70%RH | |
| | EMC Emission | EN55015, EN61000-3-2 Class C, IEC61000-3-3 | |
| | EMC Immunity | EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547 | |
| | Certifications | CE, EMC | |

Applications

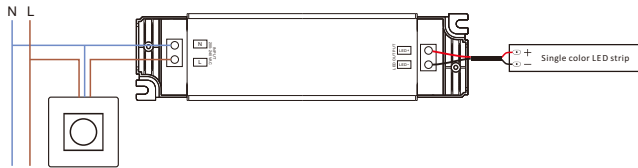
- Suitable for LED related fixture or appliance which use LED light bar and LED tape (like LED Decoration or Advertisement devices).
- Office / Commercial / Domestic Lighting, Hotels, Retail and Display.
- Use for retrofit upgrades & new luminaire designs.

Wiring Diagram

1. Connect Triac dimmer(no Neutral wire)



2. Connect Triac dimmer(with Neutral wire)



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 can not be dimmed below. To dim to 1%, please make sure the dimmer supports 1% minimum dimming level.

Dimming Curve

