

Triac Constant Voltage LED Driver

Model No.: TE-40-12 / TE-40-24



TE-40-12

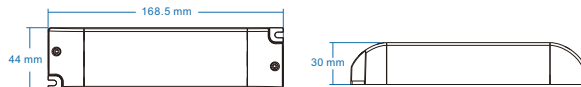
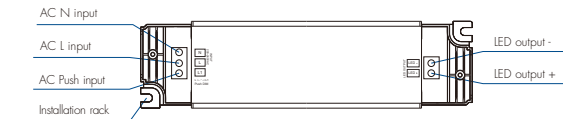
TE-40-24



Features

- Dimming interface: Triac/EIV, AC Push-Dim
- 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 40W
- Over-heat / Overload / 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

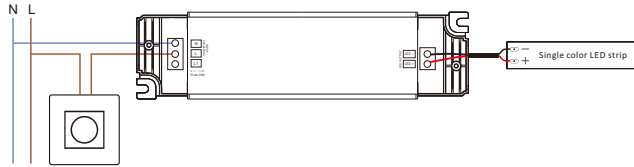
| Model | TE-40-12 | TE-40-24 | |
|----------------|------------------------------|---|----------------|
| Output | Output Voltage | 12VDC | 24VDC |
| | Output Current | Max. 3.34A | Max. 1.67A |
| | Output Power | Max. 40W | |
| | Dimming Range | 0~100% | |
| | Ripple & Noise | <=260mV/230VAC | <=132mV/230VAC |
| | PWM Frequency | 500Hz | |
| Input | Input Voltage Range | 200~240VAC | |
| | Frequency Range | 50/60Hz | |
| | Efficiency | 82%/230VAC | 85%/230VAC |
| | Alternating Current | 0.41A/230VAC | 0.39A/230VAC |
| | Inrush Current | Cold start 27.5A at 230VAC | |
| | Leakage Current | <5mA | |
| Protection | No Load Power | <1W | <1W |
| | Over Load Power | Shut down the output when current load >= 120%~150%, auto recovers. | |
| | Short Circuit | Shut down automatically if short circuit occurs, auto recovers. | |
| Environment | Over Temperature | Intelligently adjust or turn off the output current if the PCB temp > 100°C, auto recovers. | |
| | 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 | ±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 | I/PO/P: 3750VAC | |
| | Insulation Resistance | I/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

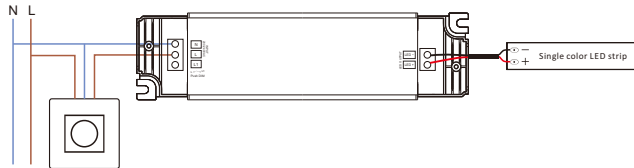
- Suitable for LED related fixture or appliance which use LED light bar and LED tape (like LED Decoration or Advertisement devices).
- Office / Commercial / Domestic Lighting, Hotels, Retail and Display.
- Use for retrofit upgrades & new luminaire designs.

Wiring Diagram

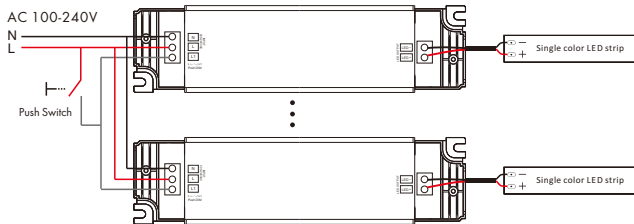
1. Connect Triac dimmer(no Neutral wire)



2. Connect Triac dimmer(with Neutral wire)



3. Connect AC Push switch



Triac Dimming Input

While connected with a Triac dimmer, such as Lutrom, Clipsal, Dyalite 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.

AC Push-Dim input

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

- **Short press:**
Turn on or off light.
- **Long press (1-6s):**
Press and hold to stepless 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

