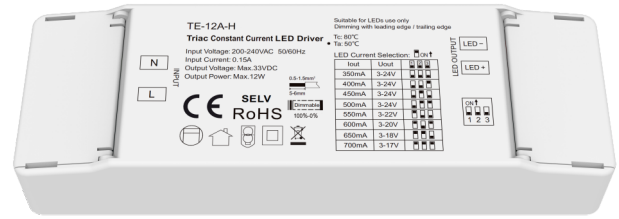


Triac Constant Current LED Driver

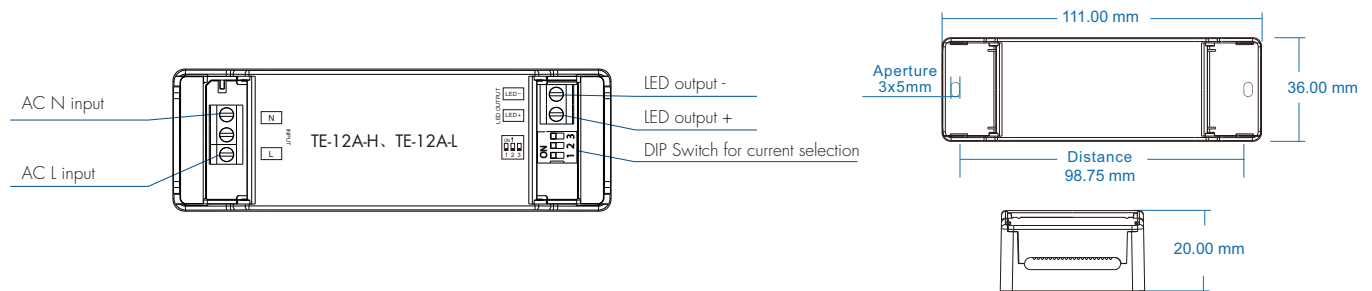
Model No.: TE-12A-H, TE-12A-L

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 current output, configurable current via DIP switch
- Over-heat / Over-voltage / 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-12A-H	TE-12A-L	
Output	Output Voltage	3-24VDC	9-45VDC
	Max Output Voltage	33VDC	48VDC
	Output Power	Max.12W	Max.12W
	Output Current	350-700mA	100-450mA
	Dimming Range	0~100%, dimming depth:0.1%	
	PWM Frequency	4000Hz	
	Current Accuracy	±5%	
	Ripple & Noise	< 100mV	
	Rise time	1S/230VAC	
Input	Input Voltage Range	200~240VAC	
	Frequency Range	50/60Hz	
	Efficiency	78%/230VAC	
	Alternating Current	0.15A/230VAC	
	Inrush Current	Cold start 10A at 230VAC	
	Anti Surge	L-N:1KV	
	Leakage Current	< 0.5mA/230VAC	
No Load Power	< 1.3W		
Protection	Over Load Power	Hiccup,recovers automatically after fault condition is removed	
	Short Circuit	Hiccup,recovers automatically after fault condition is removed	
	Over Temperature	Current decrease when PCB temp>100°C, recovers automatically after fault condition is removed	
Environment	Working Temperature	-20°C~50°C	
	T-case Max	80°C	
	Working Humidity	20%~90%RH, non-condensing	
	Storage Temp/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/P-O/P: 3750VAC	
	Insulation Resistance	I/P-O/P: 100MQ/500VDC/25°C/70%RH	
	EMC Emission	EN61000-3-2 Class C, IEC61000-3-2	
	EMC Immunity	EN61000-4:2.3.4.5.6.8.11, EN61347	
	Certifications	CE	

LED Current Selection: 

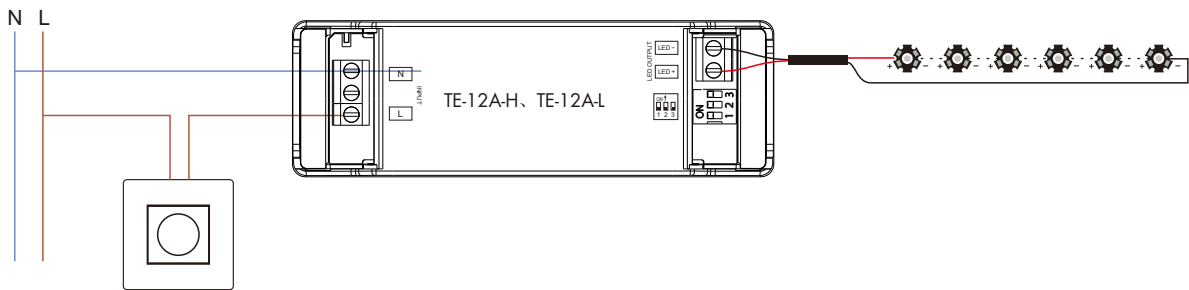
Model	  	  	  	  	  	  	  	  	  
TE-12A-H	Output Voltage	3-24V	3-24V	3-24V	3-24V	3-22V	3-20V	3-18V	3-17V
	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
TE-12A-L	Output Voltage	9-45V	9-45V	9-45V	9-45V	9-40V	9-34V	9-30V	9-26V
	Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA	450mA

Applications

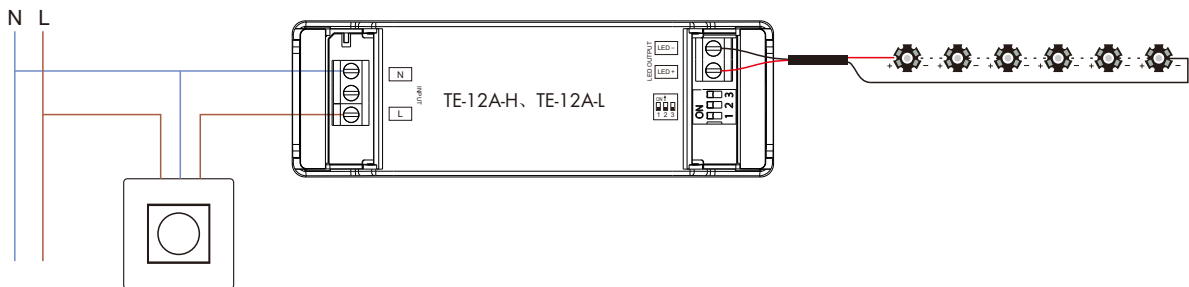
- Suitable for downlight, spotlight and decorative applications.
- Office / Commercial / Domestic Lighting, Hotels, Classrooms, Warehouse, Health care, Retail and Display.
- Use for retrofit upgrades & new luminaire designs.

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

