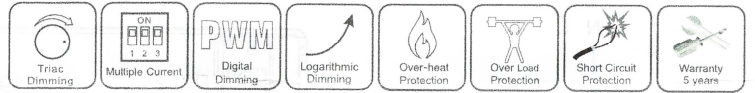
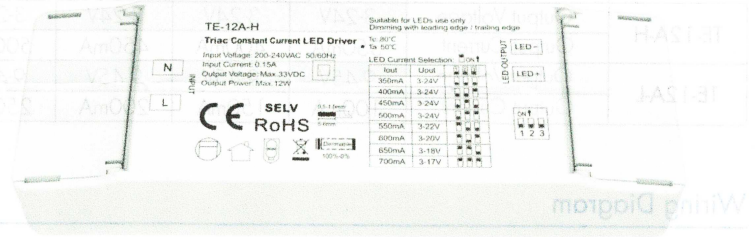


Triac Constant Current LED Driver

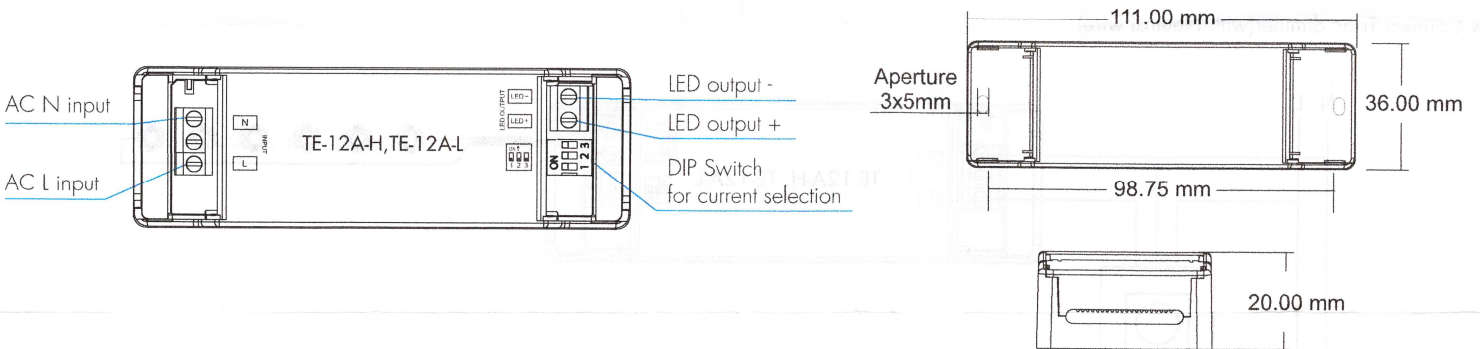
- Dimming interface: Triac/ELV
- Apply to leading edge/trailing edge Triac dimmers and dimming system
- PWM digital dimming, no alter LED color rending index
- 1 channel constant current output, configurable current via DIP switch
- Over-heat / Over-voltage / Over-load / Short circuit protection, recover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



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.

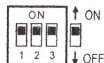
Mechanical Structures and Installations



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	
Input	Rise time	1S/230VAC	
	Input Voltage Range	200~240VAC	
	Frequency Range	50/60Hz	
	Efficiency	78%/230VAC	
	Alternating Current	0.15A/230VAC	
	Inrush Current	Cold start 10A at 230VAC	
	Leakage Current	< 0.5mA/230VAC	
Protection	No Load Power	< 1.3W	
	Over Load Power	Hiccup, recovers automatically after fault condition is removed	
	Short Circuit	Hiccup, recovers automatically after fault condition is removed	
Environment	Over Temperature	Current decrease when PCB temp>100°C, recovers automatically after fault condition is removed	
	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	
Safety&EMC	IP Rating	IP20	
	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°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	
Safety&EMC	Certifications	CE	

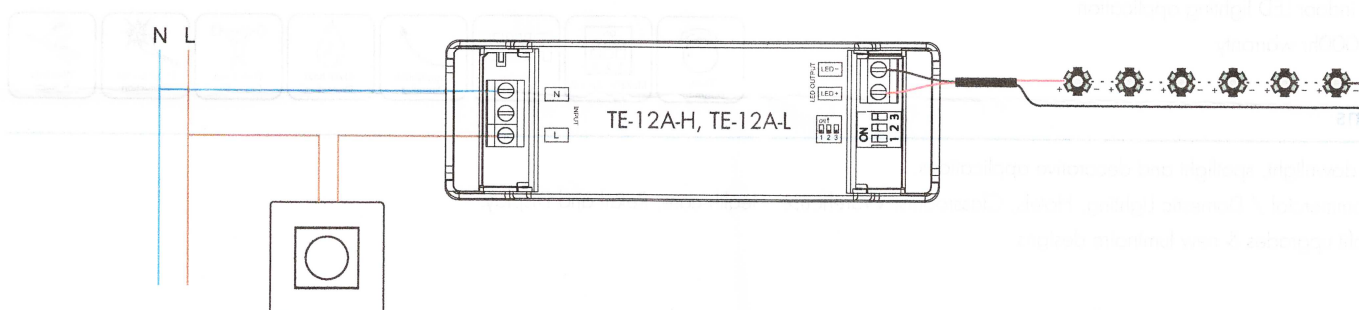
LED Current Selection:



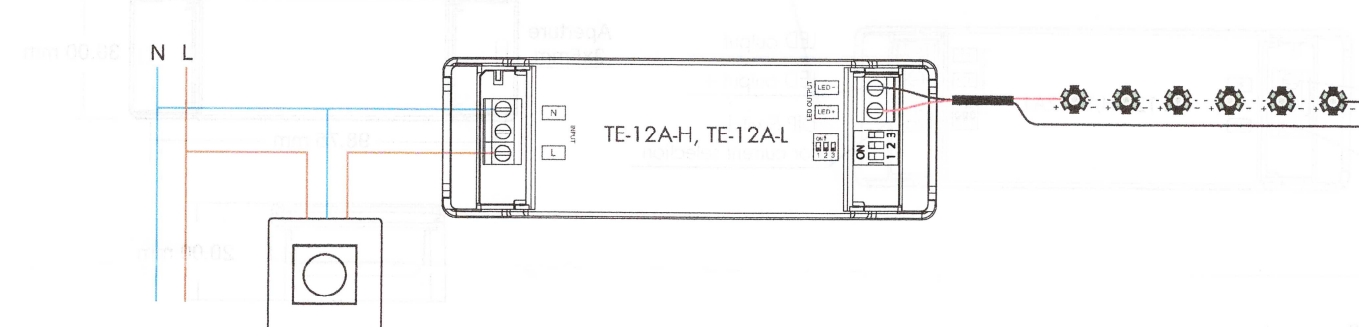
Model	1	2	3							
TE-12A-H	Output Voltage			3-24V	3-24V	3-24V	3-24V	3-22V	3-20V	3-18V
	Output Current			350mA	400mA	450mA	500mA	550mA	600mA	650mA
TE-12A-L	Output Voltage			9-45V	9-45V	9-45V	9-45V	9-40V	9-34V	9-30V
	Output Current			100mA	150mA	200mA	250mA	300mA	350mA	400mA

Wiring Diagram

- Connect Triac dimmer(no Neutral wire)



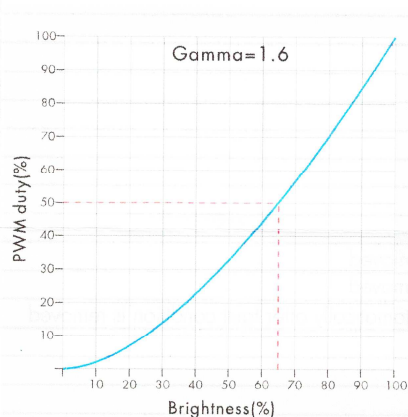
- Connect Triac dimmer(with Neutral wire)



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



Triac dimming input

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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 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.

Note:

1. Triac dimming and PUSH dimming cannot be used at the same time.
2. If the product be used with the Push-Dim interface prior to using the Triac interface, the Triac dimming signal should change over 10% to return Triac control.
(First, adjust the Triac dimming signal to the maximum, and then turn it down so that the signal changes by more than 10%.)

Installation note

1. This product must be installed and adjusted by a qualified professional.
2. This product is non-waterproof. When installed outdoors, please ensure it is mounted in a water proof enclosure.
3. LED driver should keep a certain distance from the heating stuff(such as the luminaries radiator).
The installation interval between the product and the product is recommended to be 1.5cm, so as not to affect the service life due to poor heat dissipation.
4. Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
5. If a fault occurs, please do not attempt to fix the product by yourself. If you have any questions, please contact us in time.