

PE-TL100TV 100W



IP42 RoHS SELV CE

Triac
DIM

0-10V
DIM

1-10V
DIM

Resistor
100K

10V PWM

No Flicker

Over-heat
Protection

Over Load
Protection

Short Circuit
Protection

Features:

1. Constant voltage triac dimming driver dimming range 0-100%
2. Support leading edge dimmer and leading edge dimming system
3. Support 0-10V / 1-10V / 10V PWM / 100k potentiometer dimming
4. No stroboscopic dimming, super compatible dimming power supply
5. Protection type: short circuit / overcurrent / overvoltage
6. Aluminum alloy shell, fast heat dissipation
7. Unique design, slow on and slow off function
8. Suitable for constant voltage LED strip light and other applications
9. Meet SELV safety extra low voltage standard
10. 5years warranty

Application:

1. Constant voltage lamp strip, hard lamp strip
2. Support leading edge system dimming
3. Villa, high-end hotel and other applications
4. Ultra thin light box

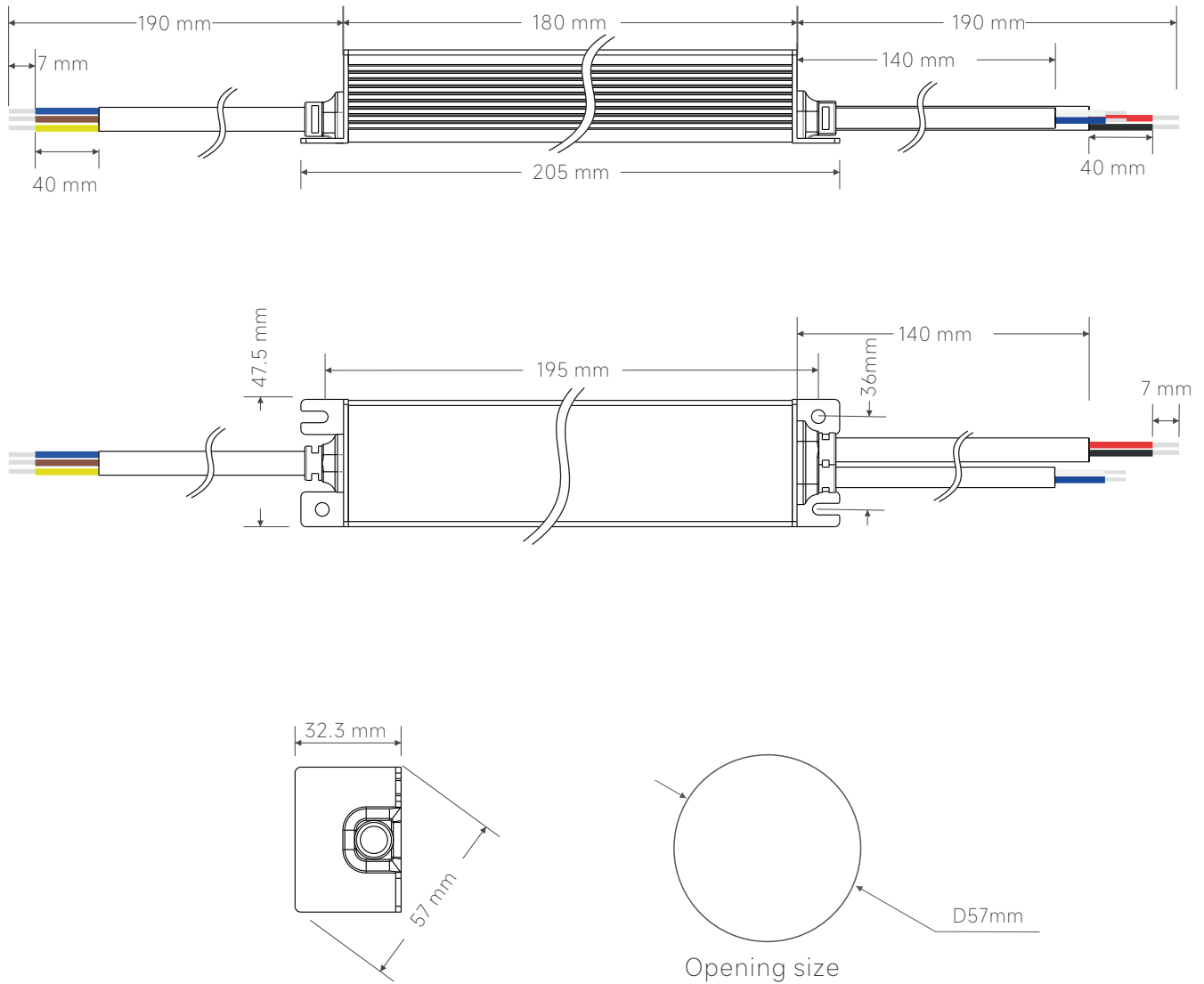
General description:

1. It adopts CPU control and designs a variety of control modes. The dimming is slow on and off.
The raw materials used are first-line brands and imported chip ultra deep dimming design,It matches a variety of intelligent dimming systems and dimmers on the market. Aluminum alloy shell, rapid heat dissipation, makes the thermal balance of components more stable

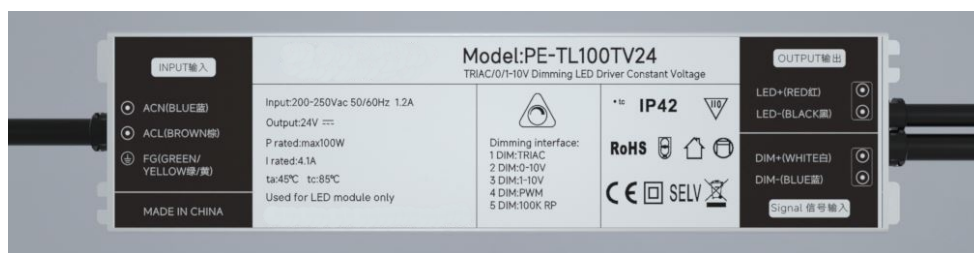
Specification:

Model		PE-TL100TV24	PE-TL100TV12
OUTPUT	Output Voltage	24Vdc	12Vdc
	Output Current	6.25A Max	8.33A Max
	Max Output Voltage	24Vdc ±0.25v	12Vdc ±0.25v
	Output Power	100W Max	100W Max
	Strobe Level	No flicker	
	Dimming Range	0~100%,	
	PWM Dimming Frequency	>3600K	
INPUT	Dimming Interface	Triac,0-10V/1-10V/10V PWM/100KResistor DIM Signal control current < 0.1mA	
	Input Voltage Range	200-250Vac 50/60Hz	
	Power Factor	0.6	
	Input Current	<1A	
	Efficiency(typ.)	88%	87%
	Inrush Current(typ.)	Cold start70A/162us	
	Anti Surge	L-N: 2kV	
	Leakage Current	<0.5mA/230Vac	
ENVIRONMENT	Working Temperature	ta: 45℃ tc: 85℃	
	Working Humidity	20 ~ 95%RH, non-condensing	
	Storage Temp., Humidity	-40 ~ 80℃ , 10~95%RH	
	Waterproof grade	Ip42	
PROTECTION	Over Load Protection	Shut down the output when rated power≥102%, auto recovers.	
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.	
	Non-load Protection	output Constant Voltage.	
SAFETY	Withstand Voltage	I/P-O/P: 3750Vac	
	Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25℃/70%RH	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547	
	Strobe Test Standard	IEEE 1789	
OTHERS	Dimension	180(205)*47.5*32mm(L×W×H)	
	Packing	235×35×61mm(L×W×H)	
	Weight(G.W.)	540±10g	
EXPLAIN	1. During use, please pay attention to the input and output wiring, and do not reverse the connection. It is forbidden to connect the signal interface with a voltage higher than 15V, otherwise the power supply will be damaged 2. During the use of the power supply, when the load is close to full load, the temperature of the power supply housing is slightly higher. Because of the high heat dissipation efficiency of aluminum, the internal temperature can be ensured Increase service life		

Dimensions :



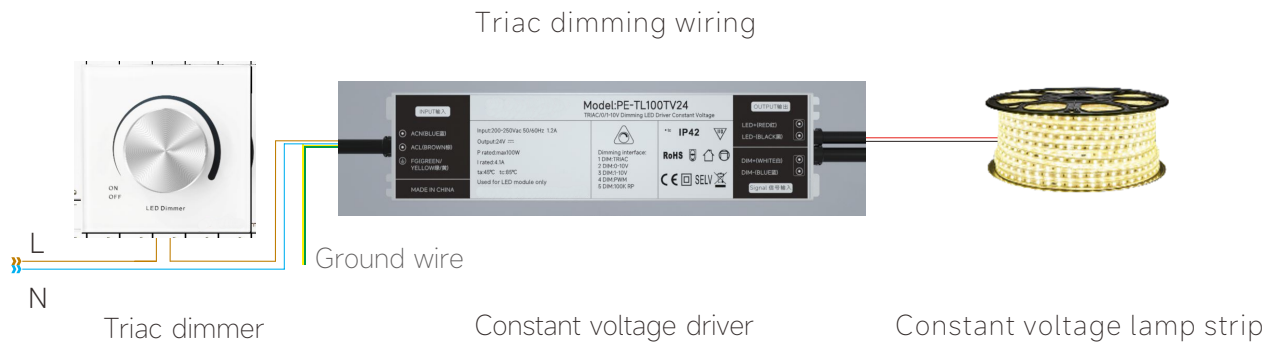
Product Label:



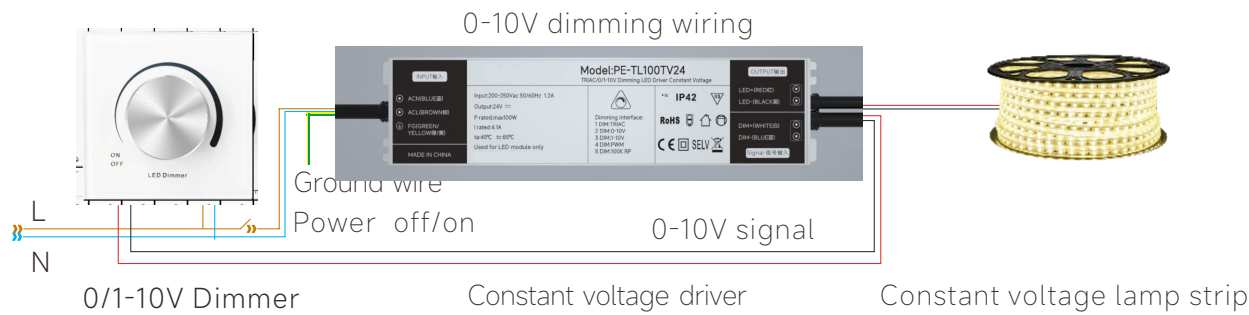
Wiring:

1. Input wire: wire gauge 3-core wire, 1m², length 190MM, stripping 6-7mm (tin coating)
2. Output wire: wire gauge, 2-core wire, 1m², length 190MM, stripping 6-7mm (tin coating)
3. Signal wire: wire gauge 2-core wire 0.75 square, 190MM length, 6-7mm stripping (tin coating)
4. External signal wire: 1.5m² copper core shielded wire, less than 200m long

Wiring Diagram:



Note: 0-10V signal wire shall not be short circuited or grounded when using silicon controlled rectifier for dimming, otherwise dimming will be affected



— 220V — N — 0/1-10V(-)signal — 0/1-10V(+)signal

Compatibility:

Dimming system Model	Wring 1 sample	Wring 2 samples	Wring 3 samples	Dimmer Model	Wring 1 sample	Wring 2 samples	Wring 3 samples	Dimmer Model	Wring 1 sample	Wring 2 samples	Wring 3 samples
Leviton LNPWR-05B	NF	NF	NF	Crestron DIN-1DIM4	NF	NF	NF	Panasonic WMY549	NF	NF	NF
Siemens 5WG1 528-1DB01	NF	NF	NF	Schneide L5504D2A	NF	NF	NF	Siemens 5UH82223-NC01	NF	NF	NF
JOBO dimming system	NF	NF	NF	DAJIN DC-TG0405CP	NF	NF	NF	Simon 45E201	NF	NF	NF
DALITEK DM802	NF	NF	NF	Lite-Puter EDX-F0411	NF	NF	NF	OPPLE P068102	NF	NF	NF
Lutron QSGR-3P	NF	NF	NF		NF	NF	NF	CABLOFIL VRCM2	NF	NF	NF
ABB 6197/12-12-101-500	NF	NF	NF		NF	NF	NF	CDN X6-TG02	NF	NF	NF
Rmarks	Abbreviation: no flicker - NF, not compatible - NC, slight flicker - SL, flicker - F, strict flicker - SF										

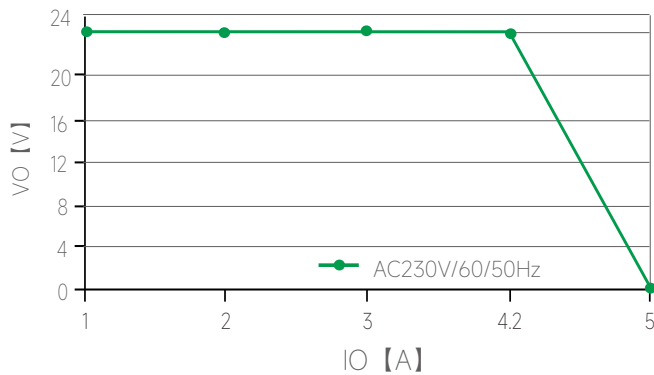
Note: 1.due to the different power of dimmer and dimming system, the compatibility will be different. Before purchase, it needs to confirm with the business to ensure the best matching effect of the product.
2.It is recommended to use a leading edge dimmer power more than 500W.

0/1-10V LOAD:

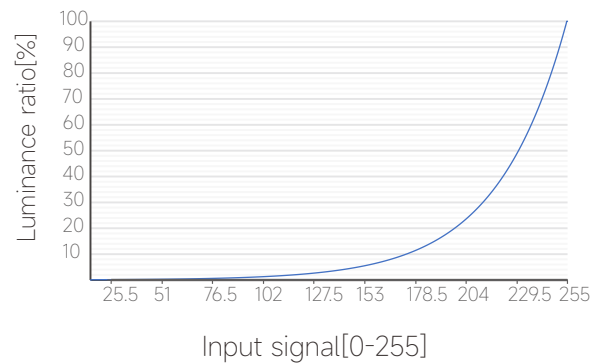
- 1. According to the actual measurement, the number of 200M controllable power supplies of 1.5 square signal lines used for 1-10V signal interface of Aidimming dimmer is 100
- 2. Compatible with the dimming system of most big brands on the market
- 3. It is forbidden to connect the signal interface with high voltage, otherwise the power supply will be damaged

Working Curve:

Over Load Diagram



Dimming curve



The use of guidance:

Note:

1. When using this power supply, please pay attention to distinguish between the input end and the output end. Please connect the wires correctly. There are positive and negative poles for the output. The power can only be turned on after checking;
2. Please connect the load at the DC output terminal, confirm it is correct, and then turn on the power supply;
3. The input voltage range of the product is AC200-250V, the output is within the specified voltage range, and the output power is within the specified use range, The ambient temperature for use is - 20 to +45 °C, and the surface cannot be covered with heat insulation cotton and other articles that block the heat dissipation of the product, This product is guaranteed free of charge for five years in an environment that meets the product's use conditions.
4. The input end of dimming power supply shall not be connected with inductive variable frequency power supply for dimming, otherwise noise will be generated.

The abnormal conditions and the corresponding treatment methods:

1. The power supply does not light up after the electrical connection of the device is completed for the first time. Please cut off the AC input terminal and check:
 - a) Whether the DC output terminal has poor contact;
 - b) Whether the positive and negative electrodes of DC output end are connected reversely and whether the LED board is welded reversely;
 - c) Whether the AC input terminal has poor contact; Test again after the above faults are eliminated.
2. After the device is electrically connected, the LED light is on, but the LED light flashes. Please cut off the AC input terminal and check the DC output terminal:
 - a) Whether there is overload or light load;
 - b) The design parameters of the power supply are inconsistent with the actual parameters (whether they are within the design output voltage range of the power supply).
3. In case of other questions or problems during the use of the product, please timely communicate with our company and feed back bad information, Our company will actively assist your company in solving problems.

Not covered by the warranty:

1. the signal control interface shall not be connected to a voltage higher than 15V to damage the power supply
2. input and output connections are reversed, resulting in power damage
3. the power supply is damaged due to water ingress

Statement:

The pictures and specifications are for reference, subject to the real object. If the specifications change, further notice will be given.