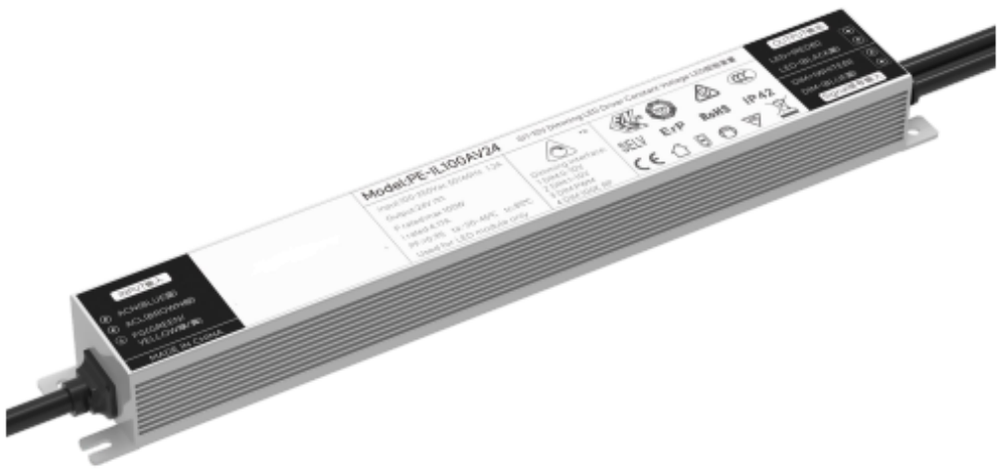
PE-IL100AV 100W



5 years RoHS SELV CE IP42

PF>0.96 | η>0.88 | 0-10V DIM | 1-10V DIM | Resistor 100K | 10V PWM | ErP | Over-heat Protection | Over Load Protection | Short Circuit Protection

Features:

1. No flicker dimming, super compatible dimming driver.
2. Digital control, output no flicker.
3. International general AC input 100-250V range.
4. Natural air cooling, moisture-proof, heat conduction, silica gel heat dissipation process.
5. Self developed depth dimming curve.
6. Multiple protection functions.
7. Special aluminum welding process, ultra small volume design.
8. Comply with ERP standard, and the standby power consumption is less than 0.5W.

Application:

1. LED strip light
2. villa intelligent lighting
3. wireless intelligent lighting system can be accessed
4. museum lighting
5. high end commercial lighting

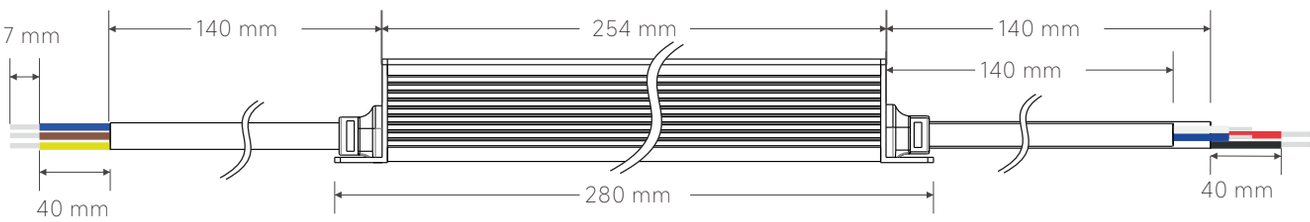
General description:

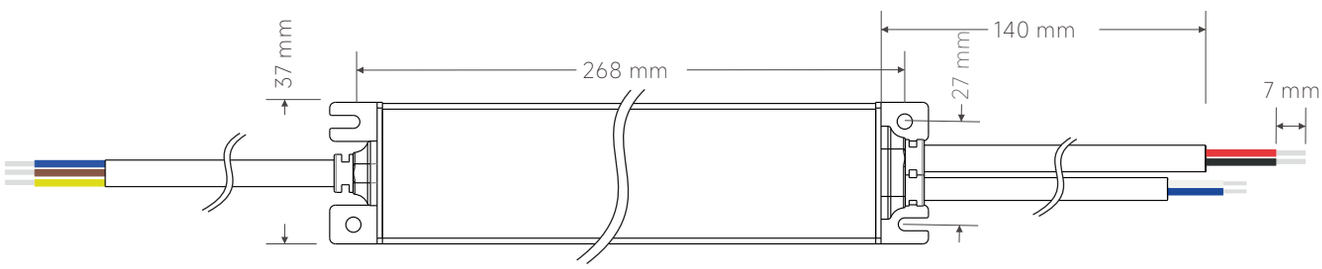
Special aluminum shell welding process, aluminum shell and internal heat conduction silica gel heat dissipation, more stable use, all raw materials are first-line brands, and imported chips deep dimming design matches the intelligent dimming system of various brands in the market
Anti surge voltage 2KV, smooth dimming, no flicker, low noise in dimming process

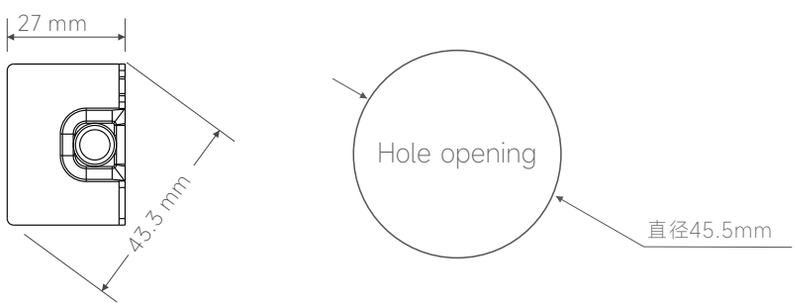
Specification:

Model		PE-IL100AV24	PE-IL100AV12
OUTPUT	Output Voltage	24Vdc	12Vdc
	Max Output Voltage	4.15A	8.3A
	No load output voltage	24.4Vdc	12.2Vdc
	Load power range	0-4.15A	0-8.3A
	Output Power	0-100W	0-100W
	Strobe Level	No Flicker	
	Dimming Range	0~100%，LEDstart at 0.1%possible.	
	PWM Dimming Frequency	>3600Hz	
	Current Accuracy	±3%	
	Power down mode	No signal maximum brightness output	
INPUT	Dimming Interface	0-10V 1-10V signal interface current <2ma / PUSH(P1 P2)	
	Input Voltage Range	100-250Vac	
	Frequency	50/60Hz	
	Input Current	<1.2A ac100v	
	Power Factor	PF>0.98/100V ac(at full load)	
	THD	230Vac@THD <10% (at full load)	
	Efficiency(typ.)	91%	87%
	Standby Power	0.4W	
	Inrush Current(typ.)	cold start 2A/760ns@230Vac	
	Anti Surge	L-N: 2kV	
	Leakage Current	<0.25mA/230Vac	
ENVIRONMENT	Working Temperature	ta: -20~45°C ,tc: 85°C	
	Working Humidity	20 ~ 95%RH, non-condensing	
	Storage Temp., Humidity	-40 ~ 80°C, 10~95%RH	
	Temp.Coefficient	±0.03%/°C(0-50)°C	
	Vibration	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.	
PROTECTION	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, , auto recovers.	
	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 & EMC	Withstand Voltage	I/P-O/P: 3750Vac	
	Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH	
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13	
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547	
	Strobe Test Standard	IEEE 1789	
OTHERS	Dimension	280×37×27mm(L×W×H)	
	Packing	Box	
	Weight(G.W.)	450g±10g	

Dimensions :







Product Label:

Connection:

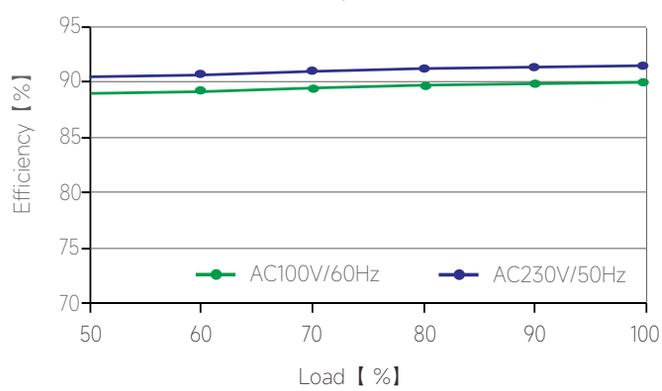
Note: the signal line interface cannot be connected to high voltage, otherwise the power supply will be damaged

Wiring:

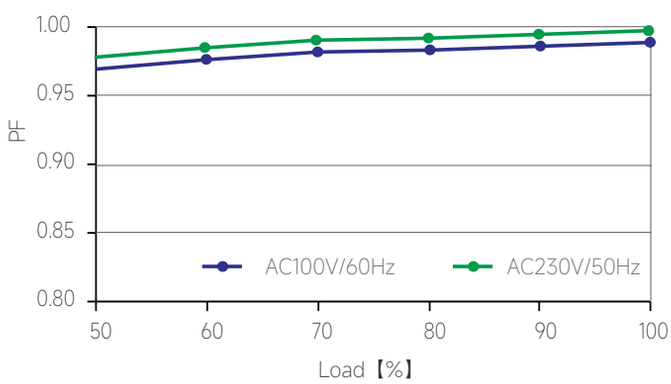
Input wire: wire gauge 3-core wire 1 square, length 185mm, wire stripping 6-7mm (TIN)
Output wire: wire gauge 2-core wire 0.75 square, length 185mm, wire stripping 6-7mm (TIN)
Signal wire: wire gauge 2-core wire 0.5m2, wire stripping 6-7mm (TIN)

Relationship Diagrams:

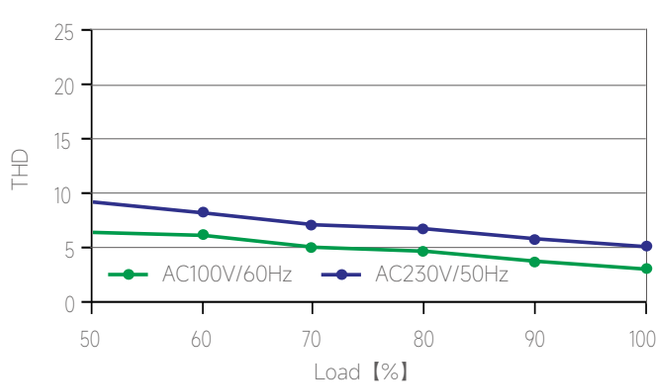
Efficiency vs Load



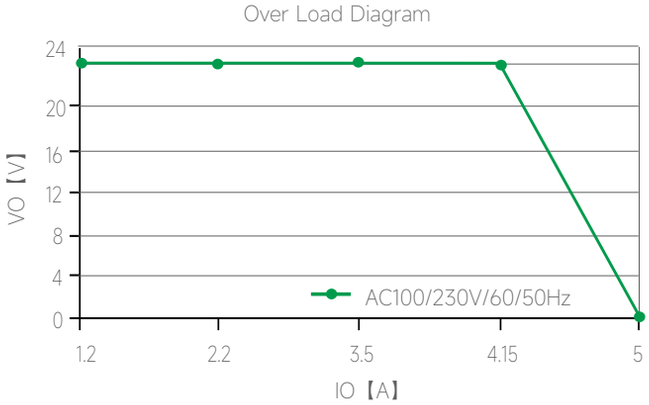
Power Factor Characteristic



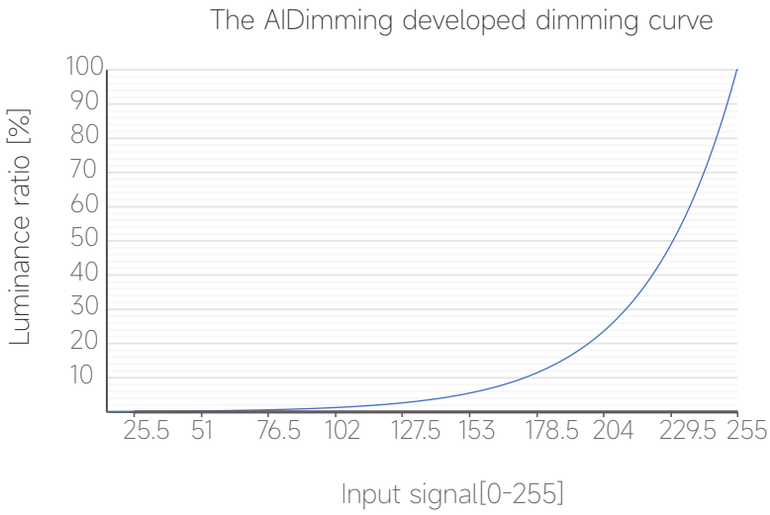
THD vs Load



Over Load Diagram



Dimming curve



The use of guidance:

Unless otherwise specified, all specifications and parameters are measured under the input of 230VAC and the rated load of 25 ℃ ambient temperature.
Wire according to the product identification, and pay attention to the positive and negative poles and the direction of input and output.
matters needing attention:
Note 1: please check whether the input and output terminals are correct before power on;
Note 2: please connect the load at the DC output first, confirm it is correct, and then turn on the power supply; In the constant voltage mode, if the open circuit is powered on, please turn off the power supply and connect the LED after the electric energy stored at the output end is released;
Note 3: this power driver is used for LED lamps. The input voltage range of the product is AC 100-250V, which is used within the specified output voltage and current range,
When the ambient temperature is - 20 to + 45 ℃, and the surface cannot be covered with thermal insulation cotton and other items that block the heat dissipation of the product, the product enjoys a five-year free warranty under the environment that meets the service conditions of the product.
1. If the power supply does not light up after the electrical connection of the device for the first time, please cut off the AC input terminal and check:
1). Check whether the DC output terminal has poor contact.
2). Whether the positive and negative poles of DC output terminal are connected reversely.
3). Check whether the AC input terminal has poor contact, eliminate the fault and then conduct power on test.
4). Connect the signal to read whether the data is set to shutdown before power on
2. After the device is electrically connected, the LED light is on, but the LED light flashes. Please cut off the AC input power supply and check the DC output:
1). Whether the design parameters of power supply are consistent with the actual use parameters of LED lamps.
2). In case of other questions or problems during the use of the product, please contact our company in time to communicate and feed back bad information. Our company will actively assist your company to solve the problems.

Product warranty scope:
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 there is any change in the specifications, it will be notified separately.