



Constant Voltage Phase/Triac dimmable driver---50W series PWM output



■ Features:

- Output constant voltage
- Universal AC input: 100-130VAC
- High efficiency :up to 84%
- Protection:short circuit/over loading/over current/ Over temperature
- Full protection plastic housing
- Easy installation
- Cooling by free air convection
- Compatible with Forward phase,Magnetic low voltage,Triac Dimmers
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications and others
- Suitable for dry or damp location use, IP20



■ Specification

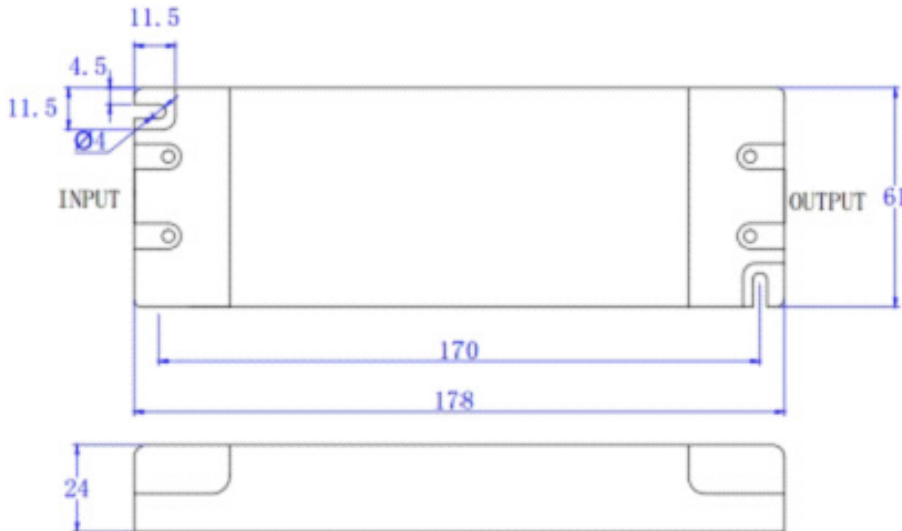
Model		P-50W-12V	P-50W-24V
Certificates		ETL,cETL,FCC	ETL,cETL,FCC
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Rated current	4.17A	2.08A
	Rated power	50W	
Input	Voltage Range	100-130VAC	
	Frequency Range	47~63HZ	
	Power Factor	0.65 (Full loading)	
	Efficiency (Typ.)	81%	84%
	AC Current (Max.)	1.6A	1.6A
	Leakage current	< 0.50mA/120VAC	
Protection	Short Circuit	Hiccup mode, recover automatically after fault condition is removed	
	Over Current	≤1.2*I out	
	Over Loading	≤120%	
	Over temperature	100℃±10℃, Shut down o/p voltage, recover automatically after temperature goes down.	
Environment	Working TEMP.	-40~+60℃	
	Working Humidity	20~90%RH, non-condensing	
	Storage TEMP. Humidity	-40~+80℃, 10~95%RH	
	TEMP .coefficient	±0.03%/℃ (0~50℃)	
	Vibration	10~500Hz, 2G 12min./1 cycle, period for 72min. each along X,Y,Z axes	
Safety& EMC	Safety standards	UL8750+UL1310 Class 2 unit	
	Withstand voltage	I/P-O/P:1500VAC	
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25℃/70%RH	
	EMC EMISSION	FCC Part 15 B	
Others	Net. Weight	0.35kg	
	Size	350*77*26mm (L*W*H)	
	Packing	430*375*150mm 20PCS/CTN	

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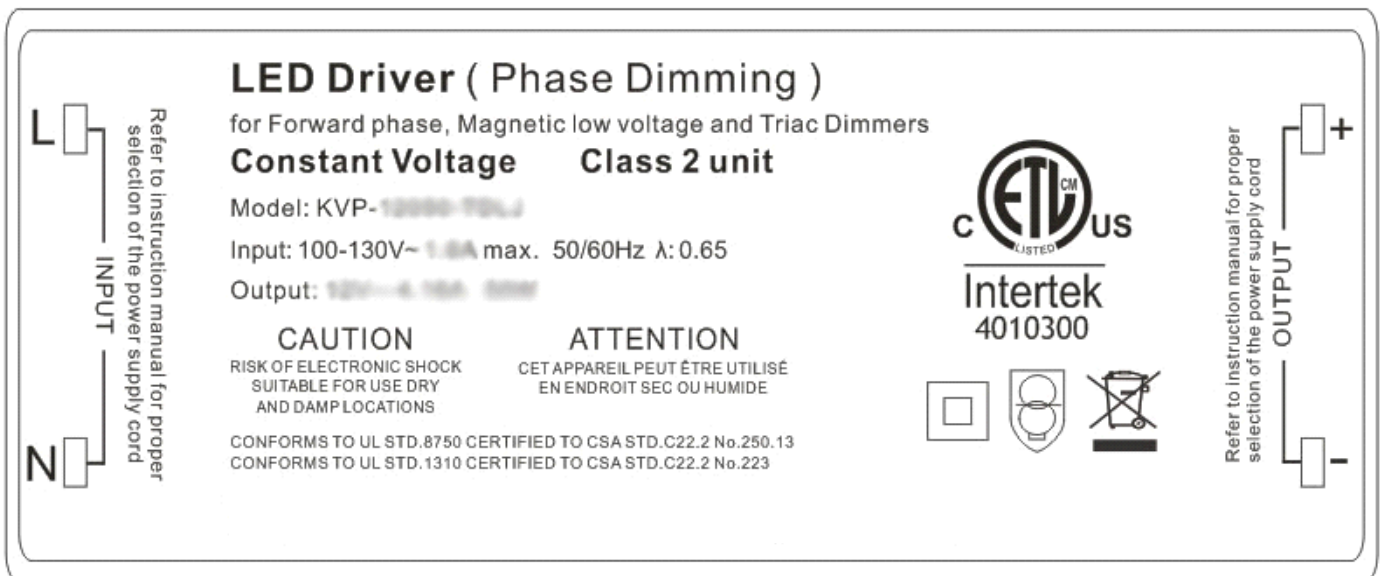
Notes

1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature.
2. To extend the driver's using life ,please reduce the loading at lower input voltage.
- 3.Loading should be 5-100%.

■ Mechanical Specification for P series 50W Phase/Triac Dimmable driver



■ Label



※ Input (L) and (N) with wires to be connected AC.

※ Output : (LED+) (LED-)

■ Dimming Operation

※The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a triac dimmer.

※Usually matching with leading edge/Forward Phase Triac Dimmers(Can customized as a driver only matching trailing edge/reverse phase Triac Dimmers if needed).

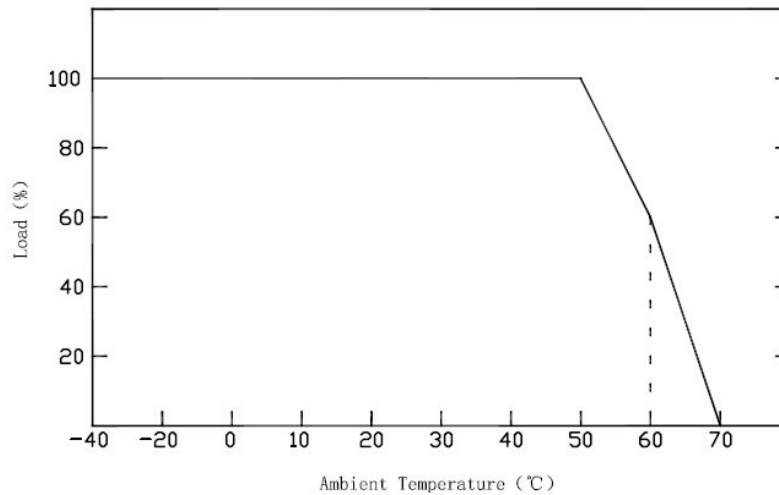
※Please try to use dimmers with power at least 2.5 times as the output power of the driver.

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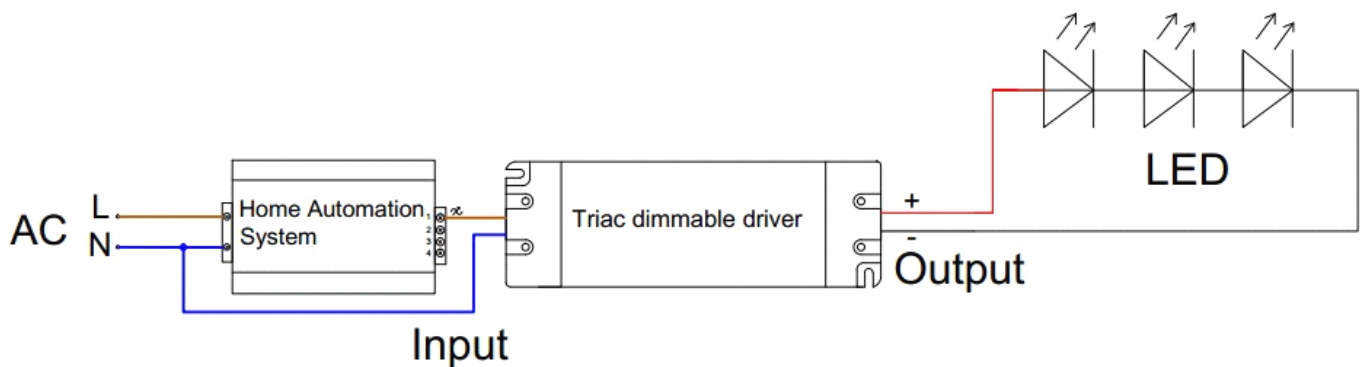
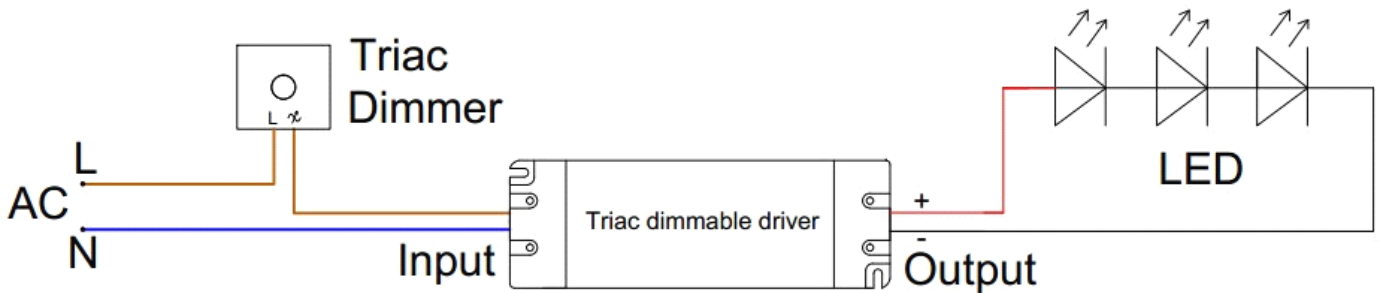
※for Forward phase,Magnetic low voltage and Triac Dimmers

■ Warning

- ※Prevent to reverse polarity;
- ※Risk of Electric Shock. When used outdoors, install only on a circuit protected by a Class A GFCI;
- ※Risk of Fire. Installation involves special wiring methods to run wiring through a building structure. Consult a qualified electrician;
- ※Risk of Electric Shock. Mount the unit at a height greater than 1 foot from the ground surface.

■ Derating Curve

※To extend their life, please refer to the Derating Curve and derate according to the temperature.

■ Single Driver Connecting Diagram



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■ Multiple Drivers Connecting Diagram

