

KVP-12050-TD

Triac dimmable driver

Constant Voltage PWM output series 50W

- Output constant voltage
- Range AC input:180-240VAC
- Efficiency :up to 84%
- Protections:short circuit/over loading/over current/Over temperature
- Full protection plastic housing easy installation
- IP20 design for indoor installation
- Cooling by free air convection
- Work with leading edge Triac dimmer TRIAC dimmer
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications



CE     IP20 SELV

Model	KVP-12050-TD	KVP-24050-TD
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Output

DC Voltage	12V	24V
Voltage Tolerance	±0.5V	
Rated current	4.17A	2.08A
Rated power	50W	

Input

Voltage Range	180-240VAC	
Frequency Range	47-63HZ	
Power Factor	PF≥0.65/180VAC PF≥0.65/230VAC PF≥0.65/240VAC(Full loading)	
Full Load Efficiency(Typ.)	80%	84%
AC Current (Max.)	0.55A	0.52A
Leakage current	<0.50mA	

Protection

Short Circuit	Hiccup mode, recovers automatically after fault condition is removed
Over Loading	≤120%
Over Current	≤ 1.2 *I out
Over Temperature	100 ± 10 shut down o/p voltage ,re-power on to recover

Environment

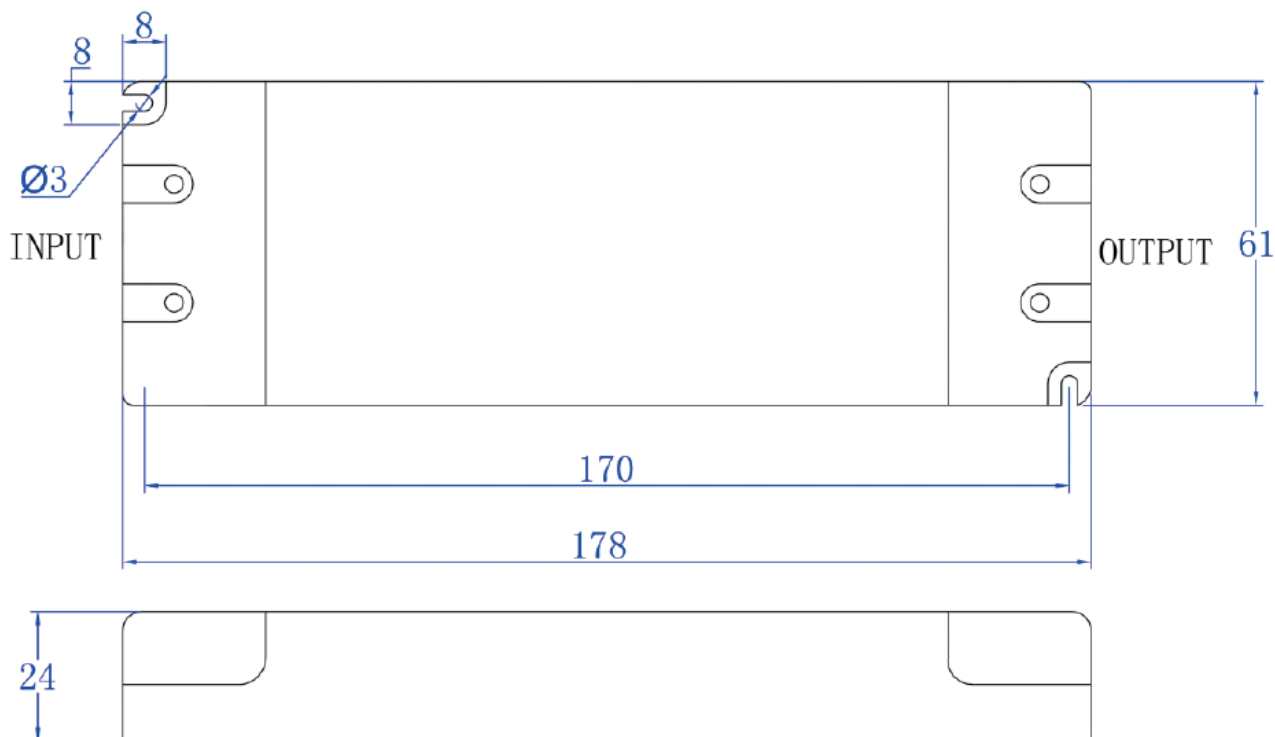
Working TEMP.	-40°C – +70°C
Working Humidity	20-90%RH, non-condensing
Storage TEM.,Humidity	-40°C – +80°C ,10-95%RH
TEMP.coefficient	±0.03%/°C(0-50)
Vibration	10-500Hz,2G 10min./1 cycle,period for 72min,each along X,Y,Z axes.
Safety standards	EN61347-1 EN61347-2-13
Withstand voltage	I/P-O/P:3.75KVAC
Isolation resistance	I/P-O/P :100MΩ/500VDC/25 /70%RH
EMC Emission	EN55015,EN61000-3-2,3 (≥60%loading)

Others

Net.Weight	0.35KG
Size	178*61*24mm (L*W*H)
packing	185*65*28mm inner box 290*215*240mm outside carton 20PCS/CTN

Notes

1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25°C
2. Tolerance: includes set us tolerance, line regulation and load regulation .
3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualify EMC Directive on the complete installation again
4. Loading range from 5% to 100% of ambient temperature.

Mechanical Specification**Label**

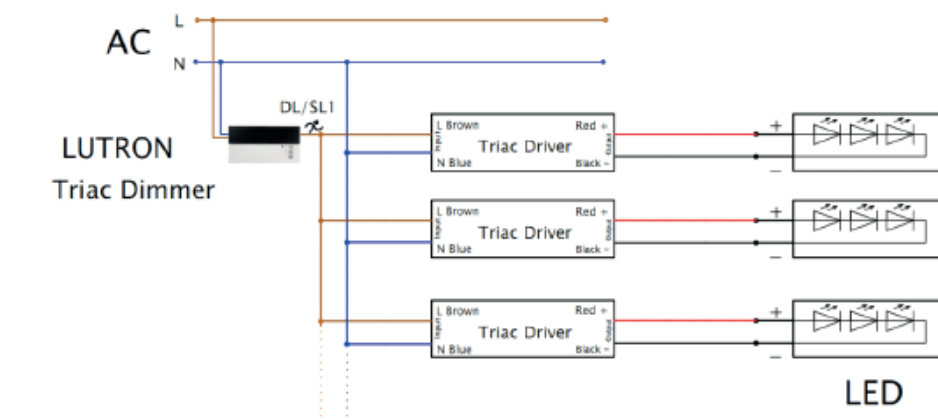
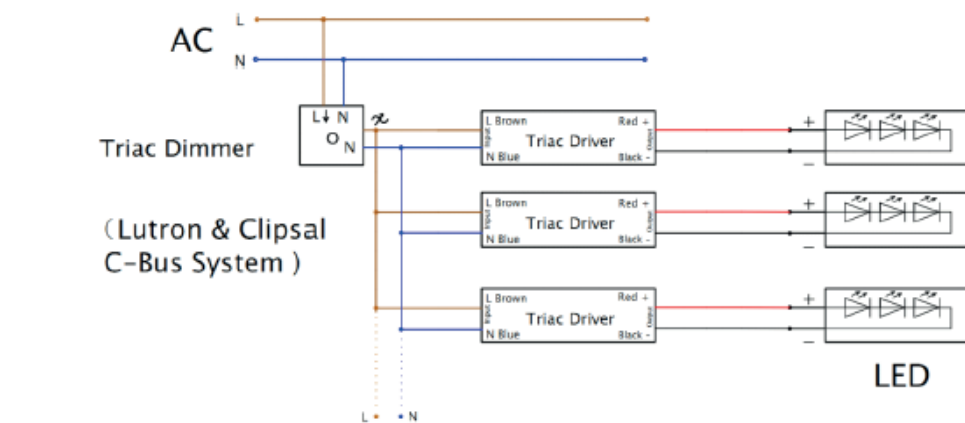
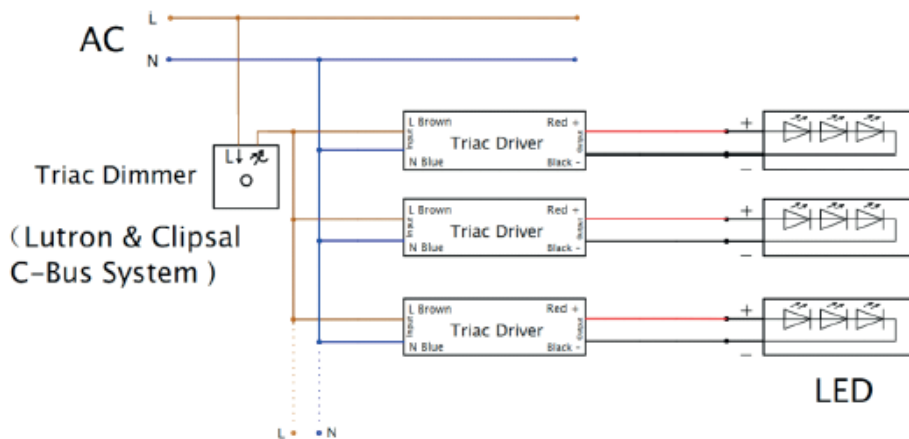
- Input with Live Wire AC (L), Neutral Wire AC(N)
- Output LED SEC output Positive (LED+) , output negative(LED-). Connected to LED Lamps.
- Suggested wire diameter:Input 0.75-2.5mm ; Output:0.5-2.5mm .
- Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

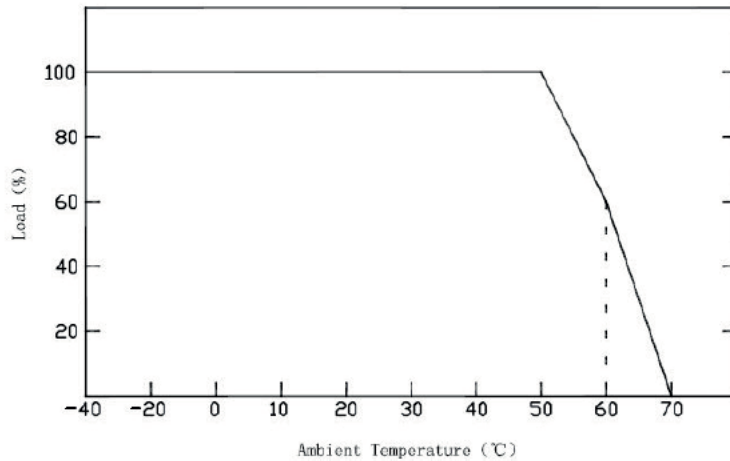
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Dimming Operation

- Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a triac dimmer.
- Usually matching with leading edge Triac Dimmers
- please try to use the small power dimmer, have access to a wider dimming range, high-power dimmer is difficult to achieve the output current to zero
- please try to use dimmers with power at least 3 times as the output power of the driver.

Connecting Diagram



Derating Curve

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

Instruction:

- 1) This driver should be installed by qualified and professional person;
- 2) Please make sure the transformer is installed with adequate ventilation around it to allow for heat dissipation.
- 3) Ensure that wiring is correct before test in order to avoid light and power supply damage;
- 4) If driver cannot work normally, don't maintain privately; Have any question, please contact