

Triac dimmable driver

Constant Voltage series 45W

- Output constant voltage
- Range AC input/ :180-240VAC
- Built-in active PFC function
- Efficiency :up to 86%
- Protections:short circuit/over loading/over current
- Full protection plastic housing easy installation
- IP20 design for indoor installation
- Cooling by free air convection
- Work with leading edge and trailing edge TRIAC dimmers
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications
- Suitable for dry locations



Model	KV-12045-TD	KV-24045-TD	KV-36045-TD	KV-48045-TD
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Output

DC Voltage	12V	24V	36V	48V
Voltage Tolerance	±0.5V			
Rated current	3750mA	1850mA	1250mA	930mA
Rated power	45W			

Input

Voltage Range	180-240VAC			
Frequency Range	47 - 63HZ			
Power Factor	PF 0.98/180VAC PF 0.95/230VAC PF 0.95/240VAC Full loading			
Full Load Efficiency(Typ.)	82%	84%	85%	86%
AC Current(Max.)	0.26A	0.25A	0.24A	0.23A
Surge Current	2.5A (twidth=800uS) 230V AC			
Leakage Current	<0.5mA			

Protection

Short Circuit	Protection type: Hiccup mode, recovers automatically after fault condition is removed			
Over Load	≤ 120%			
Over Circuit	≤ 1.2 I * out			
Protection Class:	II			

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Environment

Working TEMP.	-40°C - +60°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°C)
Vibration	10-500Hz,2G 12min./1 cycle,period for 72min.each along X.Y.Z axes.

Safety & EMC

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)
EMC IMMUNITY	EN61000-4-2,3,4,5,6,11,EN61547,A light industry level

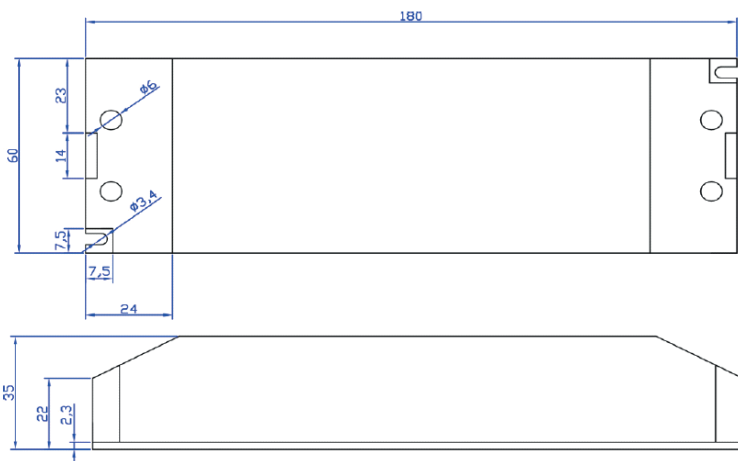
Others

Net.Weight	0.45KG
Size	180*60*35mm(L*W*H)
packing	185*65*45mm(inner box) 355*215*215mm/20 pcs /CTN

Notes

1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25 of ambient temperature.
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

Mechanical Specification



- 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 0.75-4mm ; Output:0.5-2.5mm .
- Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.
- Note: Any other requests we can customized.

Label

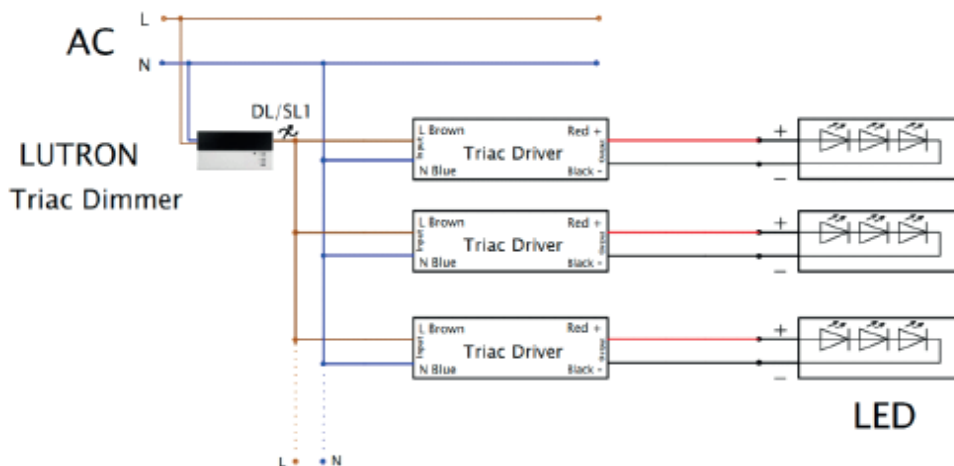
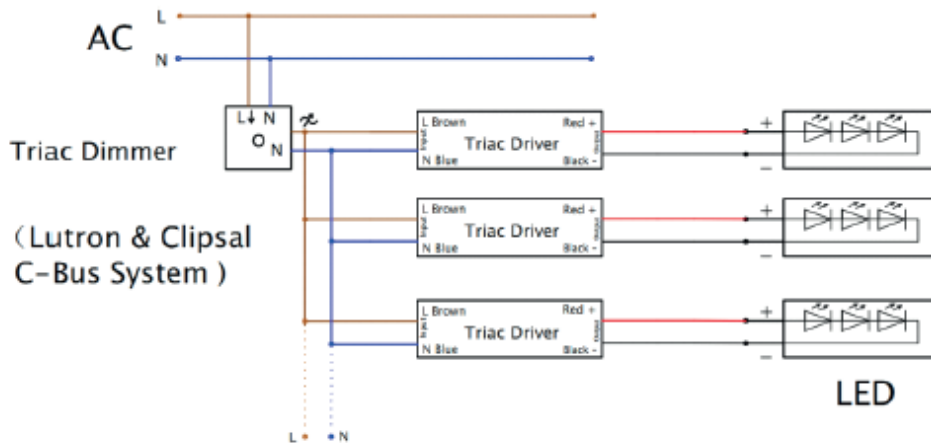
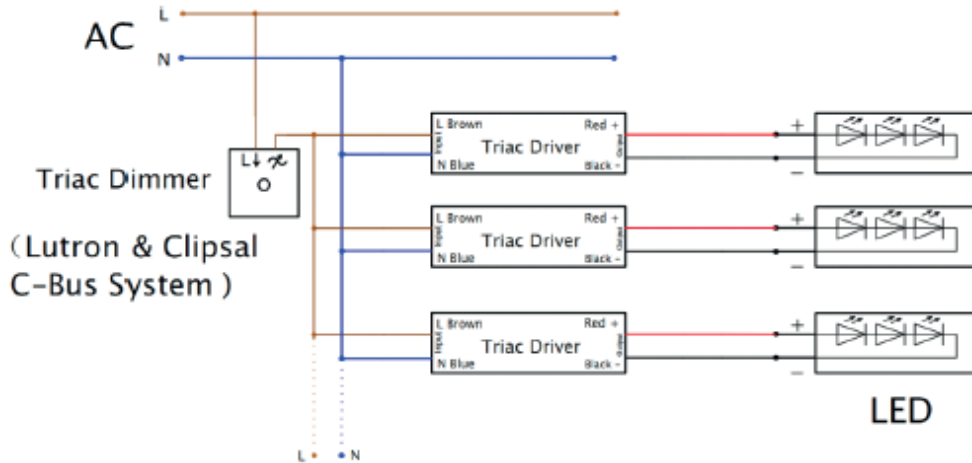


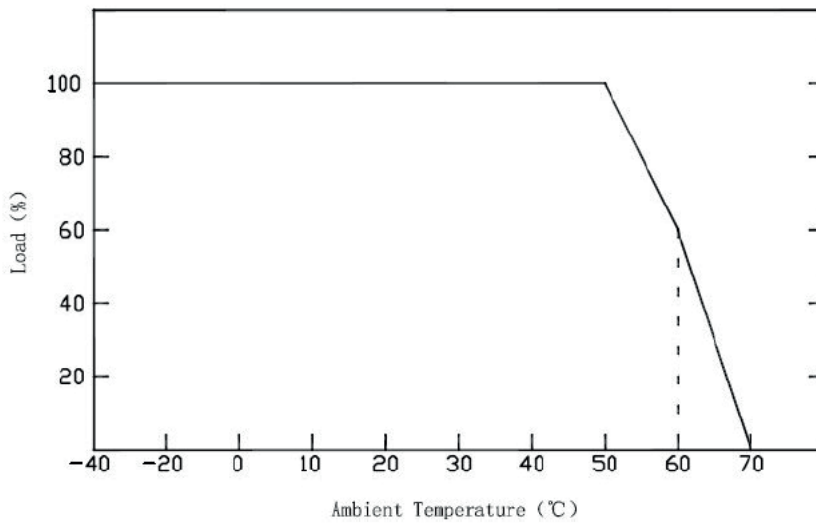
KV-45W-TD series

Dimming Operation

- Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a triac dimmer.
- Compatible with Leading edge or tailing 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

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.