

Triac dimmable driver--- Constant Voltage series 60W

■Features



- Output constant voltage
- Range AC input/ :180-240VAC
- Built-in active PFC function
- High efficiency :up to 86%
- Protections:short circuit/over load/over current/over temperature
- Full protection aluminum housing easy installation
- IP66 design for outdoor 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



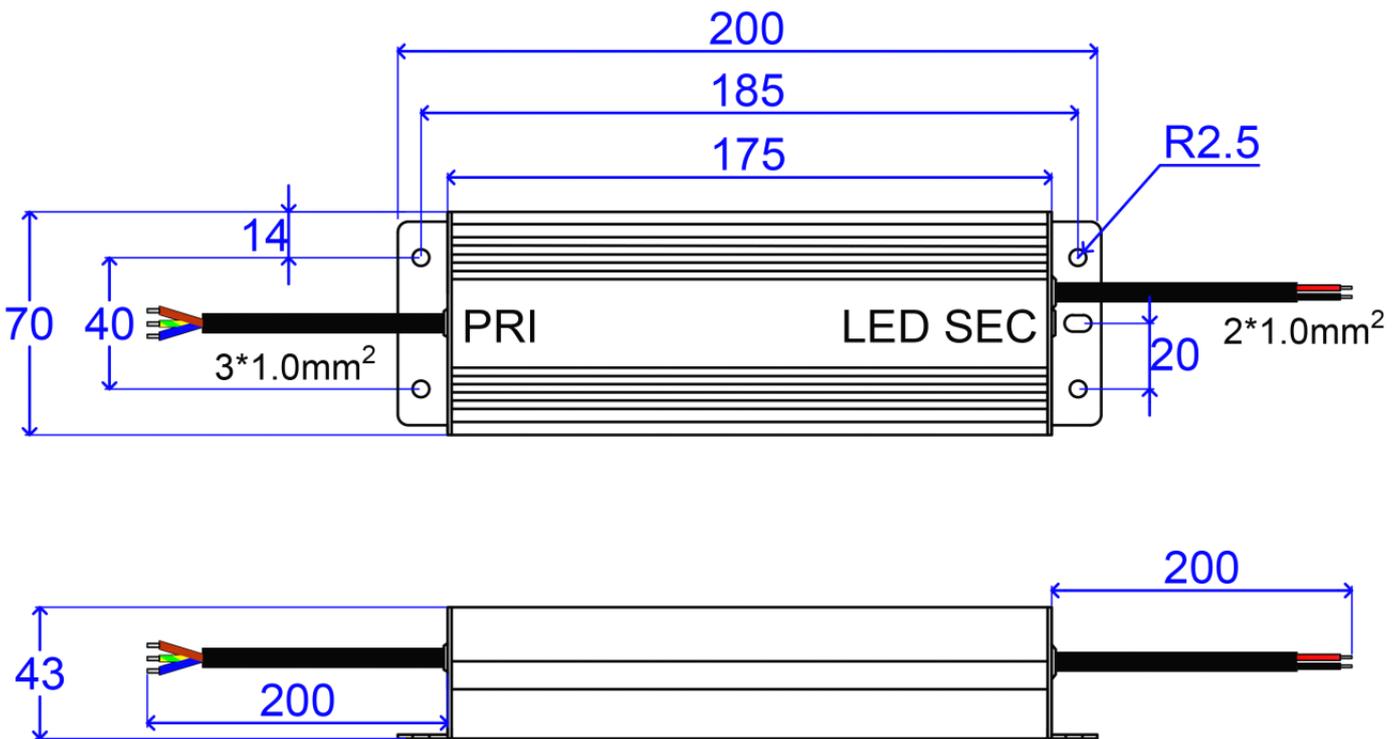
■ Specification

Model		KV-12060-TD	KV-24060-TD	KV-36060-TD	KV-48060-TD
Output	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±0.5V			
	Rated current	5000mA	2500mA	1650mA	1250mA
	Rated power	60W			
Input	Voltage Range	180-240V AC			
	Frequency Range	47-63Hz			
	Power Factor	PF≥0.98/180VAC PF≥0.95/230VAC PF≥0.95/240VAC(Full loading)			
	Full Load Efficiency(Typ.)	81%	84%	85%	86%
	AC Current(Max.)	0.34A	0.33A	0.32A	0.31A
	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:	I			
	Over temperature	100℃±10℃ shut down o/p voltage ,re-power on to recover			
Environment	Working TEMP.	-40 - +60℃			
	Working Humidity	20-95% RH,non-condensing			
	Storage TEM.,Humidity	-40 - +80 ℃,10-90% RH			
	TEMP.coefficient	±0.03% / ℃ (0-50℃)			
	Vibration	10 - 500Hz, 5G 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 I/P-FG:1.88KVAC O/P-FG:0.5KVAC			
	Isolation resistance	I/P-O/P I/P-FG O/P-FG: 100M Ω /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 (Surge 4KV)			
Others	Net.Weight	0.95 Kg			
	Size	200*70*43mm (L*W*H)			

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	packing	204*73*58mm inner box 310*240*165mm / 10PCS/ CTN
Notes	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25°C of ambient temperature. Tolerance: includes set us tolerance, line regulation and load regulation . 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



■ Label

Input Y/G N Blue	ZUHAH SHENGCHANG ELECTRONICS CO.,LTD. Made in China	LED Driver (Triac Dimming - Leading edge & Trailing edge) Constant Voltage Model: KV-12060-TD Input: 180-240V~ 0.34A 50/60Hz Output: 12V= 5000mA Prated:60W ta: 40°C tc: 70°C For LED module only	+ Red ● • tc 	Output ● - Black ●
		Building 3, No.19, Yongtian Road, Qianshan Industrial Zone, Zuhai City, Guangdong Province, China		

※Input Rubber cable H05RN-F 3G 1.0mm²,the green /yellow cable connect with (FG),Brown with AC (L),Blue with AC(N)

※Output Rubber cable H05RN-F2 1.0mm²,Red is output(V+) Positive,Black is output (V-) negative.Connected to LED Lamps.

※Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

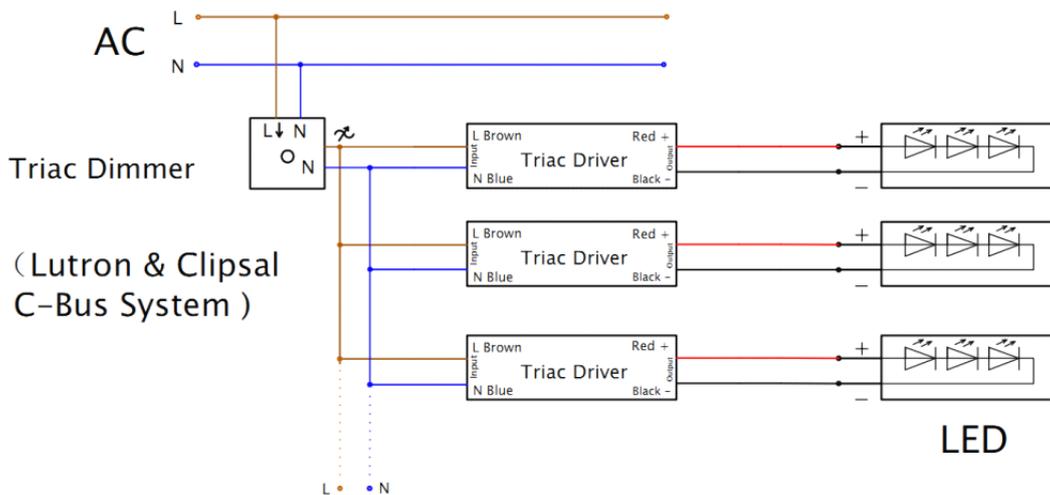
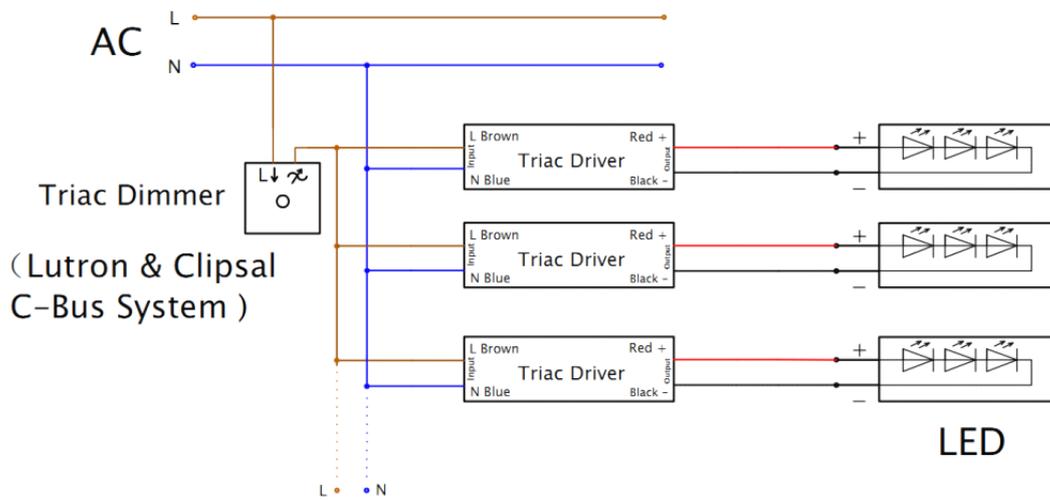
※Note: Any other requests we can customized.

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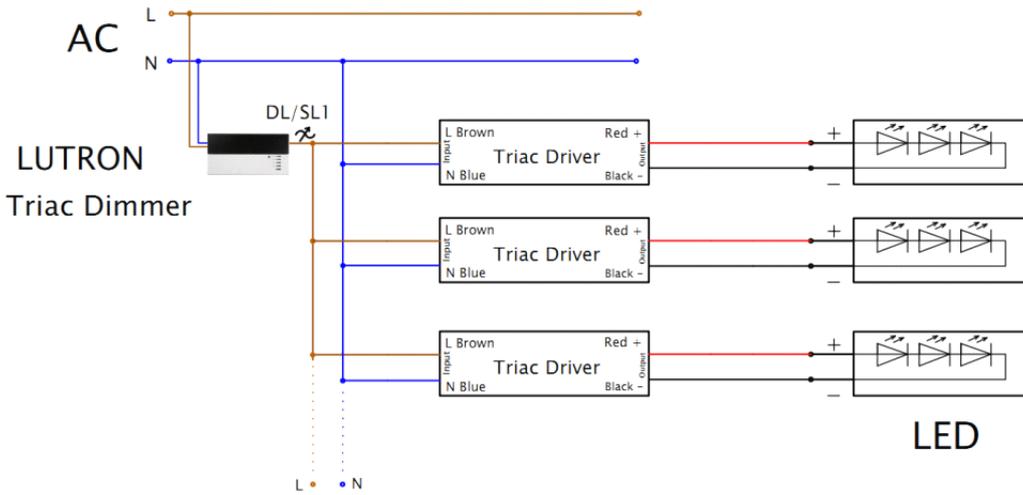
■ Dimming Operation

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

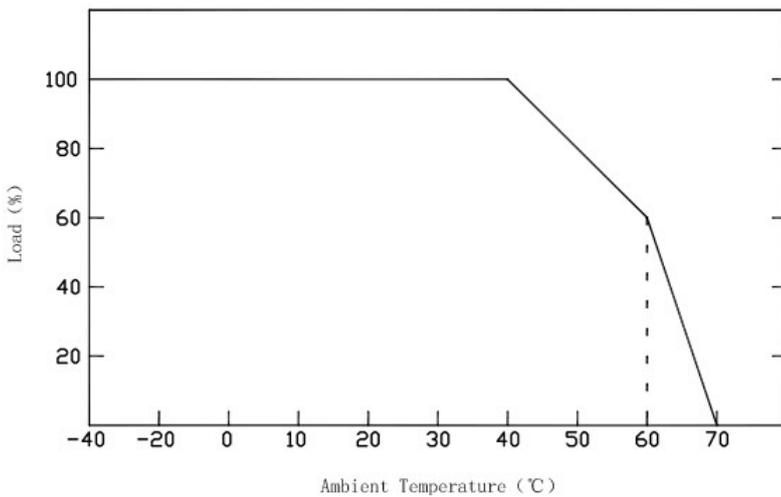
■ Connecting Diagram



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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 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 Shengchang.

Any other question please feel free to contact with ZHUHAI SHENGCHANG ELECTRONICS CO.,LTD.