

## Triac dimmable driver--- Constant Voltage series 80W

### ■ Features



- Output constant voltage
- Range AC input/ :180-240VAC
- Built-in active PFC function
- High efficiency :up to 87%
- 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



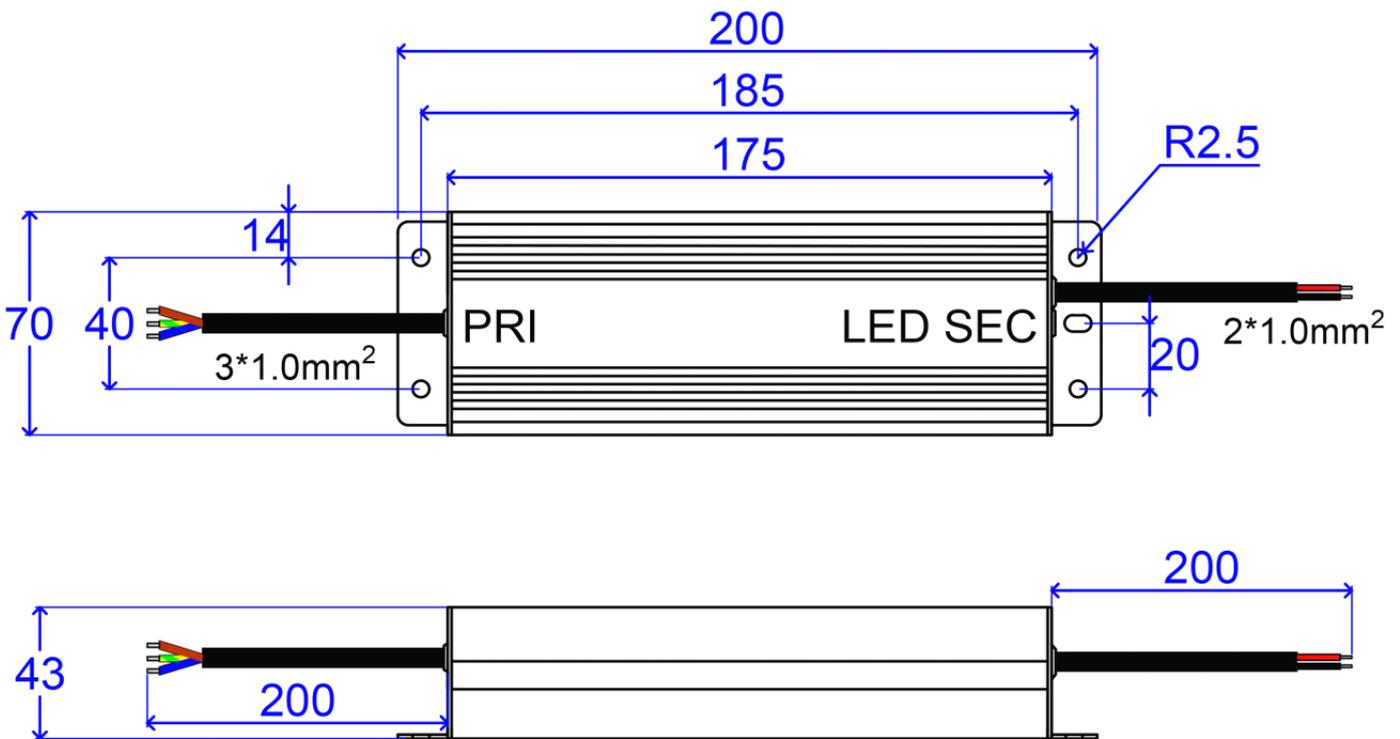
### ■ Specification

Model		KV-12080-TD	KV-24080-TD	KV-36080-TD	KV-48080-TD
<b>Output</b>	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±0.5V			
	Rated current	6650mA	3300mA	2200mA	1650mA
	Rated power	80W			
<b>Input</b>	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%	85%	86%	87%
	AC Current(Max.)	0.45A	0.44A	0.42A	0.41A
	Leakage Current	<0.5mA			
<b>Protection</b>	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			
<b>Environment</b>	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.			
<b>Safety&amp;EMC</b>	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)			
<b>Others</b>	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
<b>Notes</b>	<ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25°C of ambient temperature.</li> <li>Tolerance: includes set us tolerance, line regulation and load regulation .</li> <li>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</li> </ol>	

### ■ Mechanical Specification



### ■ Label

● L Brown	<b>LED Driver (Triac Dimming - Leading edge &amp; Trailing edge)</b>	+ Red ●
<b>Input</b>	<b>Constant Voltage</b>	<b>Output</b>
	Model: KV-12080-TD	● tc
ZHUHAI SHENGCHANG ELECTRONICS CO.,LTD.	Input: 180-240V~ 0.45A 50/60Hz	
Y/G	Output: 12V== 6650mA Prated:79.8W	
● N Blue	ta: 40°C tc: 70°C For LED module only	
Made in China	Building 3, No.19, Yongtian Road, Qianshan Industrial Zone, Zhuhai City, Guangdong Province, China	- Black ●

※Input Rubber cable H05RN-F 3G 1.0mm<sup>2</sup>,the green /yellow cable connect with (FG),Brown with AC (L),Blue with AC(N)

※Output Rubber cable H05RN-F 2 1.0mm<sup>2</sup>,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.

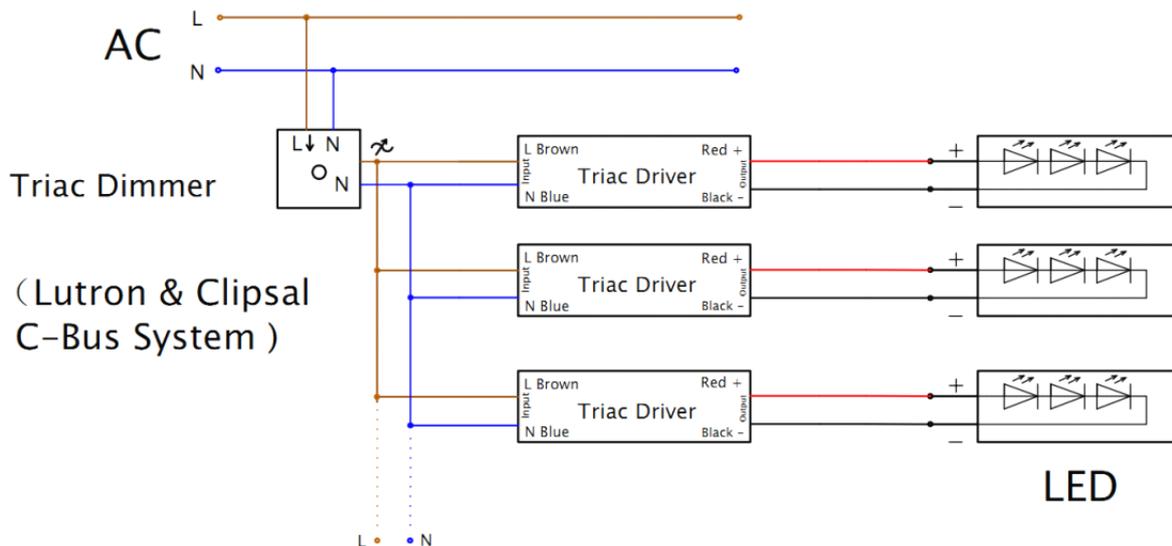
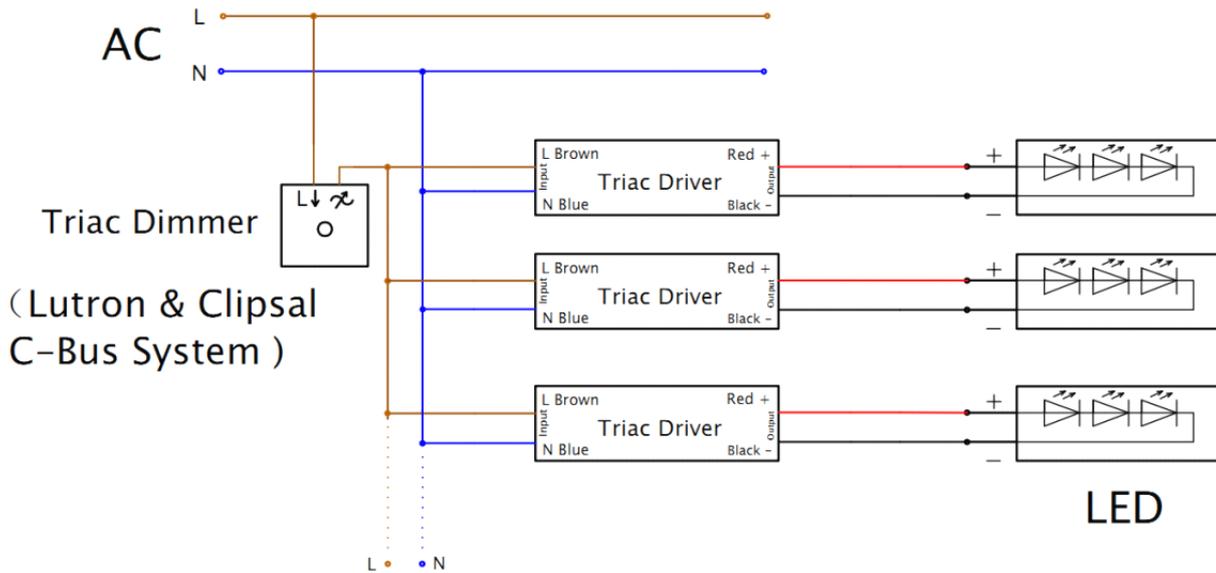
※Note: Any other requests we can customized.

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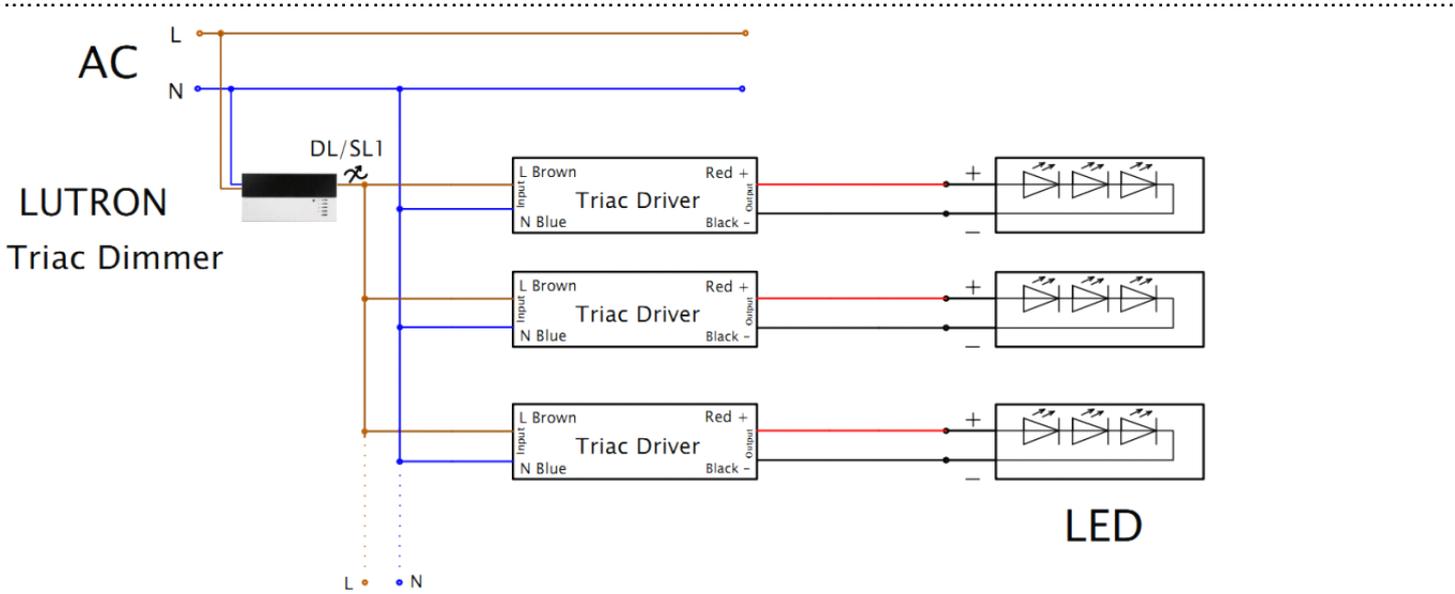
### ■ Dimming Operation

- ※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

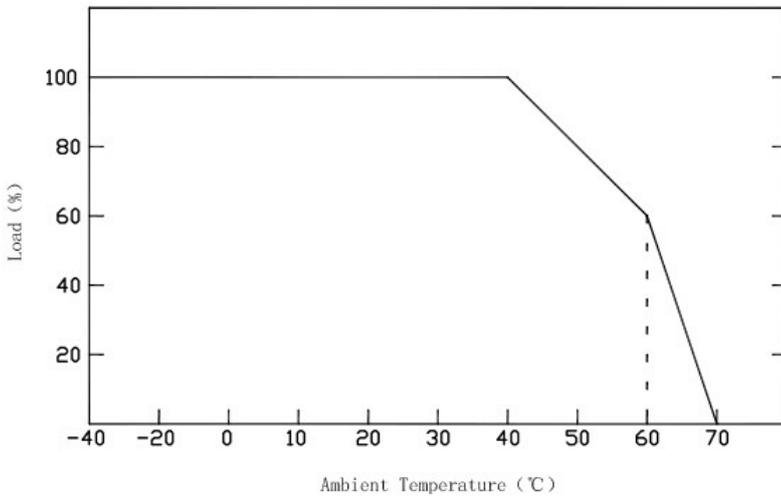
### ■ Connecting Diagram



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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.