Triac dimmable driver---Constant Voltage series 20W

■ Features:

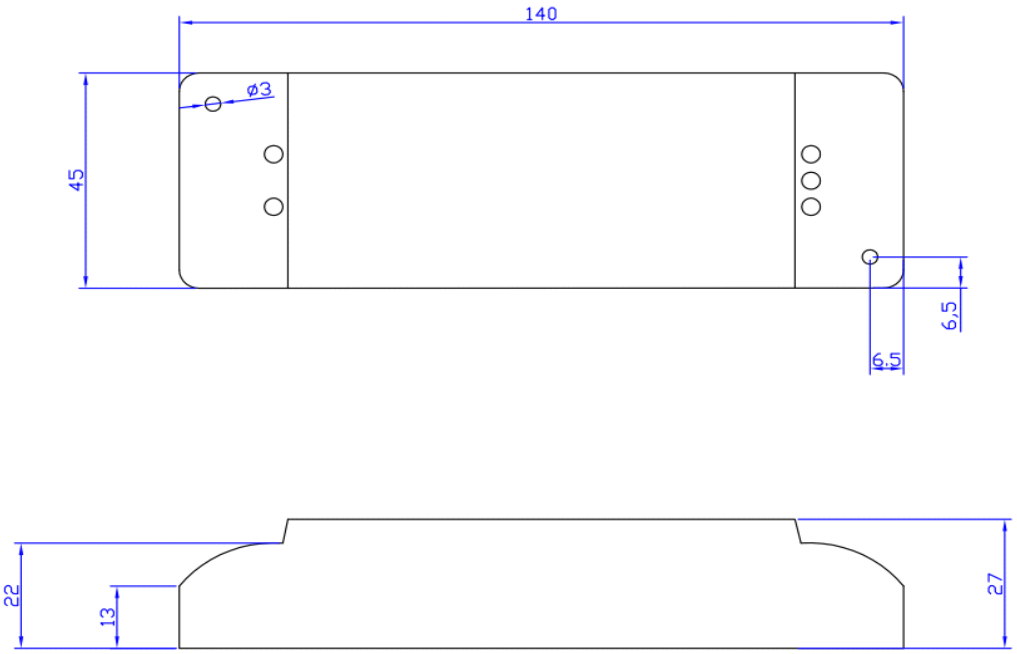
- ·Output constant voltage
- ·Range AC input/ :180-240VAC
- ·Built-in active PFC function
- ·High efficiency :up to 82%
- ·Protections:short circuit/over loading/over current
- ·Full protection plastic housing easy installation
- ·IP20 design for indoor installation
- ·Cooling by free air convection
- ·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

■ Specification

Model		KV-12020-TD	KV-24020-TD	KV-36020-TD	KV-48020-TD
Output	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±0.5V			
	Rated current	1.67A	0.83A	0.55A	0.41A
	Rated power	20W			
Input	Voltage Range	180-240VAC			
	Frequency Range	47-63HZ			
	Power Factor	PF≥0.95/180VAC PF≥0.92/230VAC PF≥0.92/240VAC(Full loading)			
	Full Load Efficiency(Typ.)	75%	78%	80%	82%
	AC Current(Max.)	0.16A	0.16A	0.15A	0.15A
	Leakage current	<0.50mA			
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed			
	Over Load	≤120%			
	Over Circuit	≤1.2 I * out			
	Protection Class:	II			
Environment	Working TEMP.	-40-+60℃			
	Working Humidity	20-90%RH, non-condensing			
	Storage TEM.,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	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	0.19Kg			
	Size	140*45*22mm(L*W*H)			
	packing	145*50*36mm inner box 320*280*215mm/ 50PCS/ 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



■ 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 0.75-2.5m㎡; Output:0.5-2.5m㎡.
※ 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.

■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.

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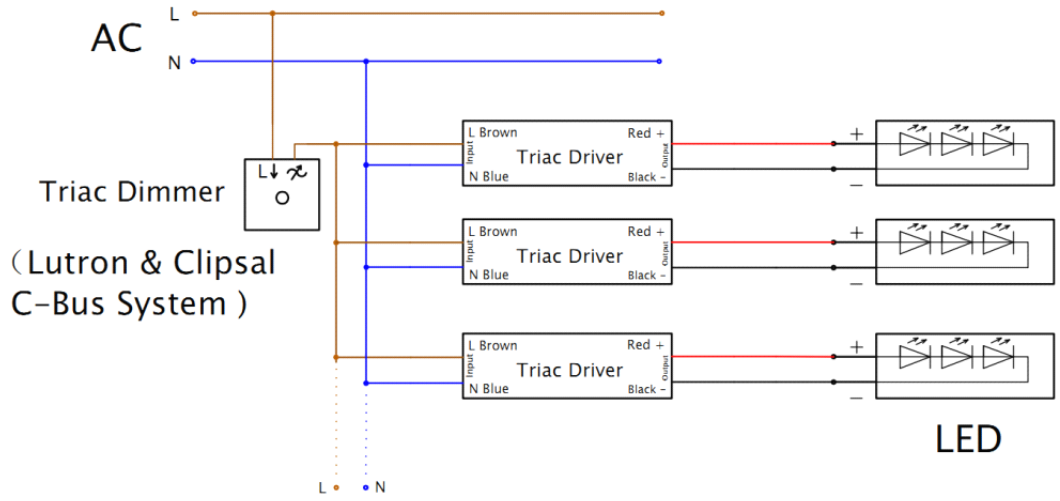
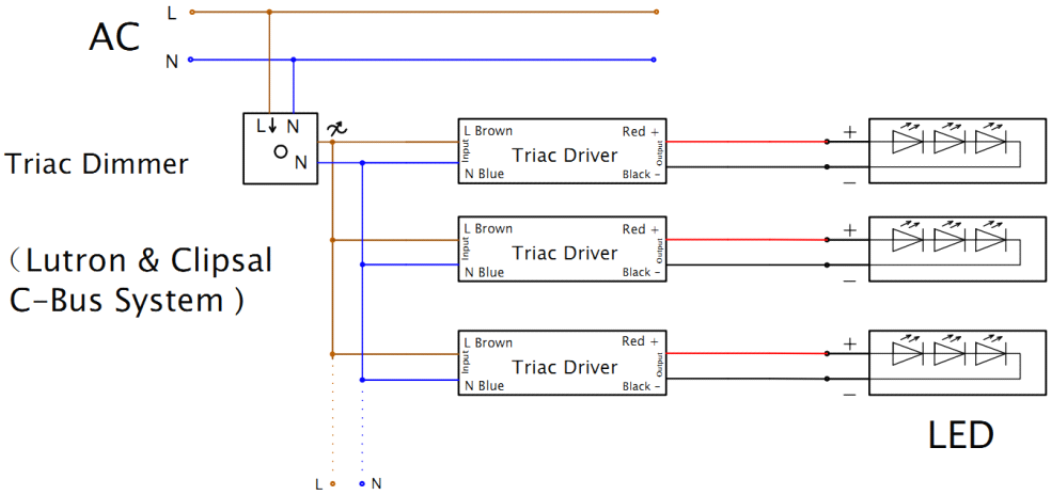
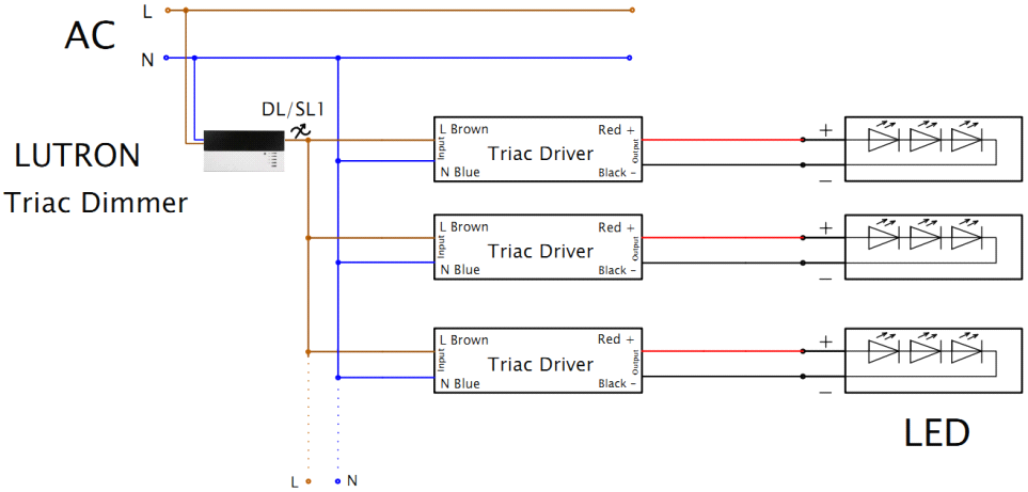
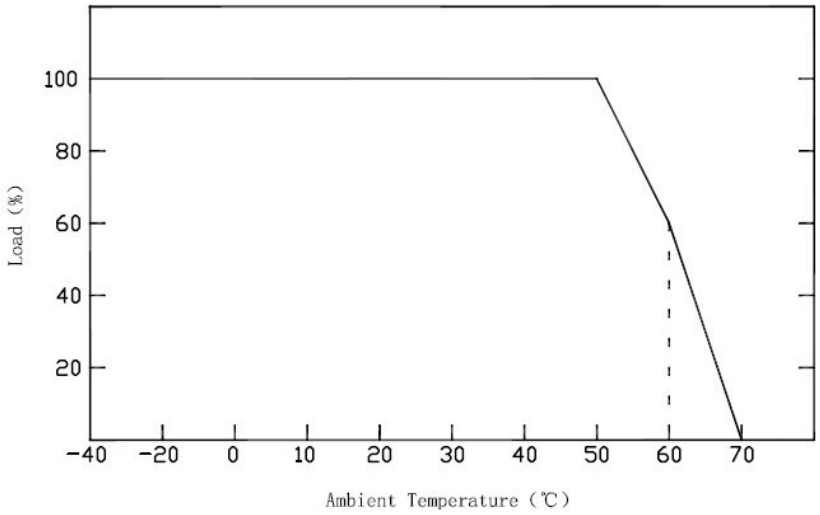
■ Connecting Diagram







■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 connot work normally, don't maintain privately;Have any question,please contact Shengchang.

Any other question please feel free to contact ZHUHAI SHENGCHANG ELETRONICS CO