

# Triac dimmable driver---Constant Current series 20W Slim case(SAA) (The 2<sup>nd</sup> Sheet)



## ■ Features:

- Output constant current
- Range AC input :180-240VAC
- Built-in PFC function
- Efficiency :up to 78%
- 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

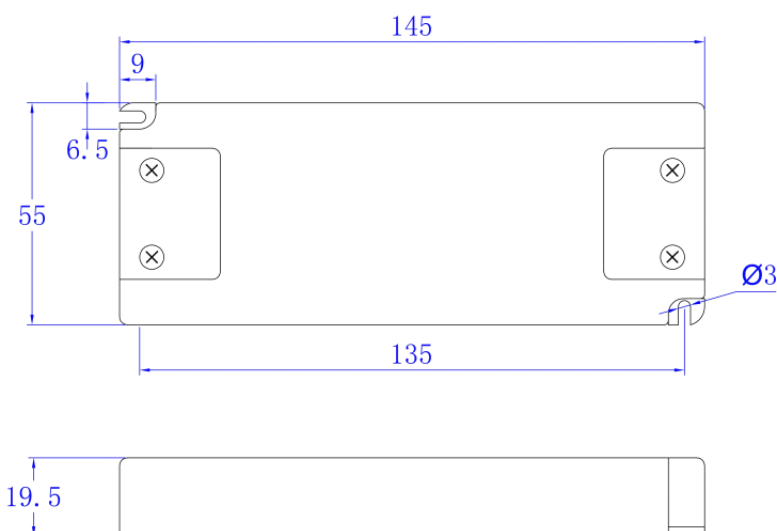


Model		KI-90180-TD	KI-80250-TD	KI-55350-TD	KI-45450-TD	KI-42420-TD	KI-22840-TD
Output	Rated current	180mA	250mA	350mA	450mA	420mA	840mA
	Current Tolerance	±5%					
	Voltage Range	54-90V	48-80V	33-55V	28-45V	26-42V	12-22V
	Rated power	16.2W	20W	19.25W	20.25W	17.64W	18.48
Input	Voltage Range	180-240VAC					
	Frequency Range	47-63HZ					
	Power Factor	PF≥0.95/180VAC PF≥0.92/230VAC PF≥0.92/240VAC(Full loading)					
	Full Load Efficiency(Typ.)	78%	78%	78%	78%	78%	76%
	AC Current(Max.)	0.14A	0.17A	0.16A	0.17A	0.15A	0.16A
	Leakage current	<0.50mA					
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed					
	Over Load	≤120%					
	Over Voltage	≤95V	≤85V	≤60V	≤50V	≤47V	≤27V
	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 (surge4KV)					
Others	Net.Weight	0.2Kg					
	Size	145*55*19.5mm(L*W*H)					
	packing	160*60*23mm inner box 350*240*130mm/ 40PCS/ CTN					

# Triac dimmable driver---Constant Current series20W Slim case(SAA) (The 2<sup>nd</sup> Sheet)

<b>Notes</b>	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25°C of ambient temperature.</li> <li>2. Tolerance: includes set us tolerance, line regulation and load regulation .</li> <li>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</li> </ol>
--------------	--

## ■ Mechanical Specification



## ■ Label



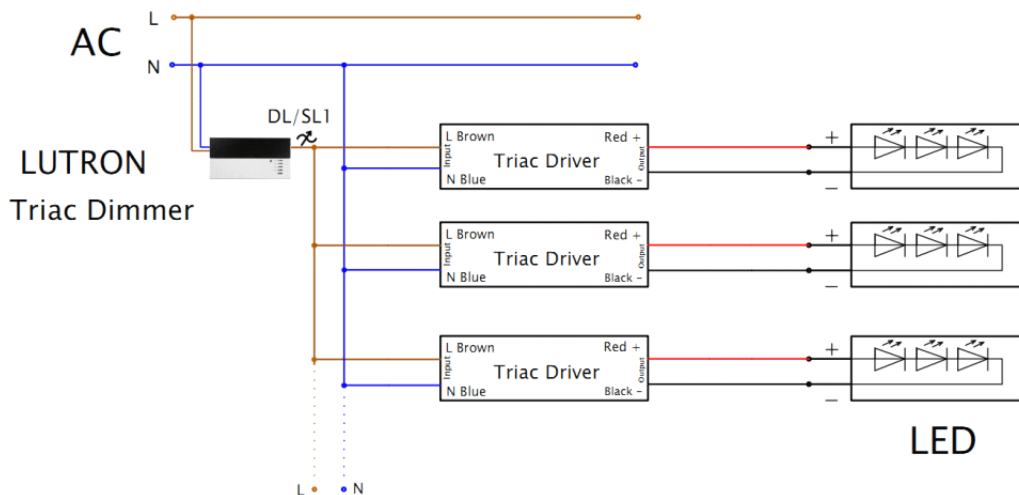
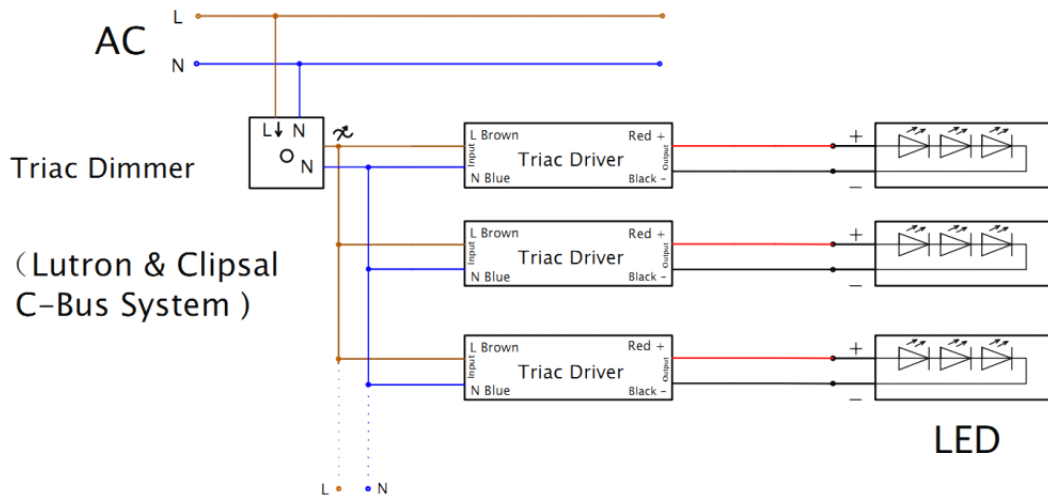
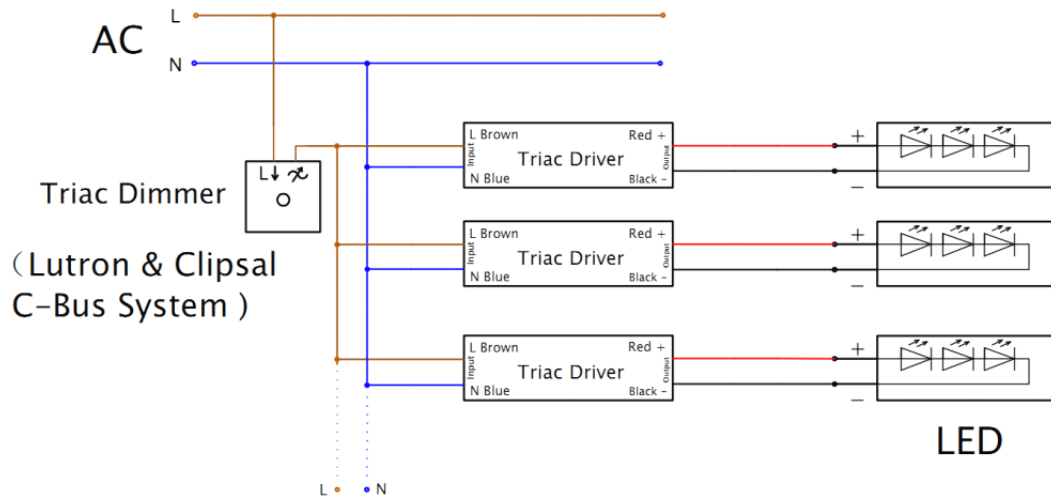
- ※ Input with Live Wire AC (L), Neutral Wire AC(N)
- ※ Output LED SEC output Positive (LED+) , output negative(LED-). Connected to LED Lamps.
- ※ Suggested wire diameter: Input 0.75-2.5mm<sup>2</sup>; Output:0.5-2.5mm<sup>2</sup>.
- ※ Please make sure you connect these correctly otherwise your product 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.

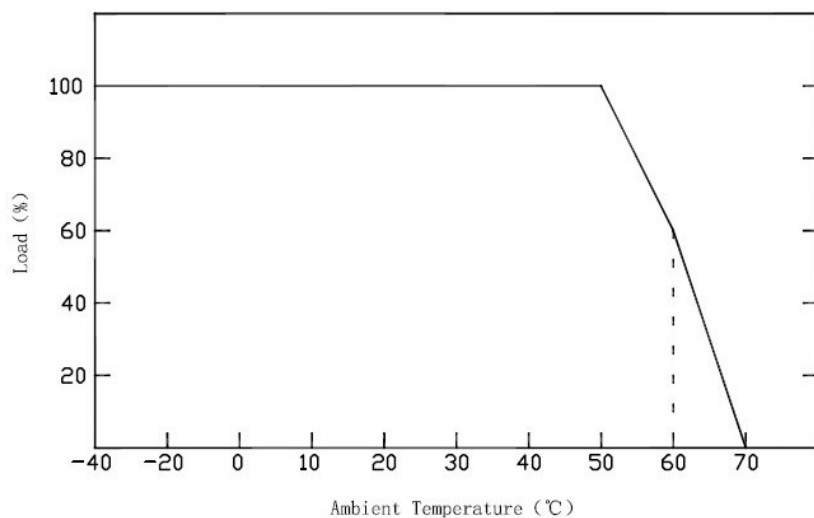
# Triac dimmable driver---Constant Current series20W Slim case(SAA) (The 2<sup>nd</sup> Sheet)

## ■ Connecting Diagram



# Triac dimmable driver---Constant Current series20W Slim case(SAA) (The 2<sup>nd</sup> Sheet)

## ■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 Shengchang.

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