

## 30W Triac Dimmable Driver - PWM Output Version

### ■ Features :

- Output constant voltage
- Range AC input/ : 180-240VAC
- Built-in active PFC function
- Efficiency : up to 85%
- 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

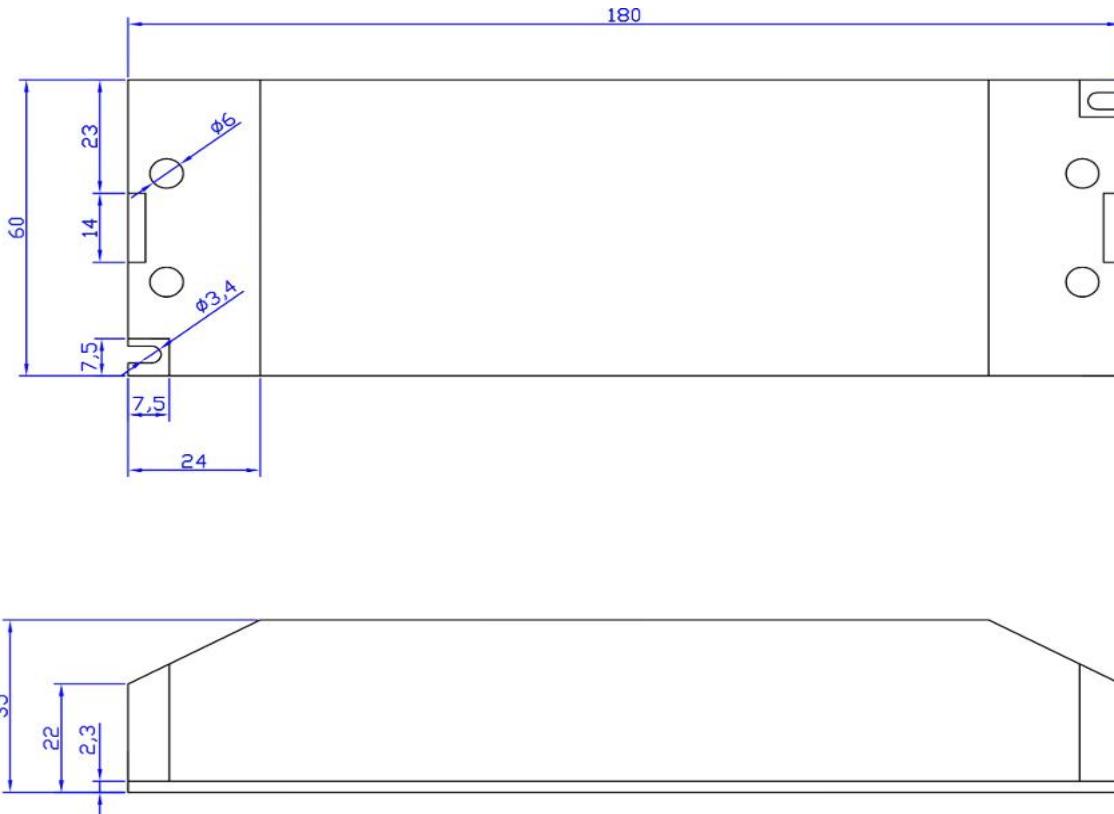


Model		SC-30-12	SC-30-24
output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Rated current	2.5A	1.25A
	Rated power	30W	
Input	Voltage Range	180-240VAC	
	Frequency Range	47 - 63HZ	
	Power Factor	PF ≥ 0.98/180VAC PF ≥ 0.95/230VAC PF ≥ 0.95/240VAC ( Full loading )	
	Full Load Efficiency(Typ.)	81%	83%
	AC Current(Max.)	0.22A	0.21A
	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	
Environment	Working TEMP.	-40 - +60°C	
	Working Humidity	20 - 90%RH, non-condensing	
	Storage TEM., Humidity	-40- + 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 IP66	
	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: 100MΩ/500VDC/25°C/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	0.45KG	
	Size	180*60*35mm(L*W*H)	
	packing	355*215*215mm/20 pcs /CTN	

## 30W Triac Dimmable Driver - PWM Output Version

<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



※ 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<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

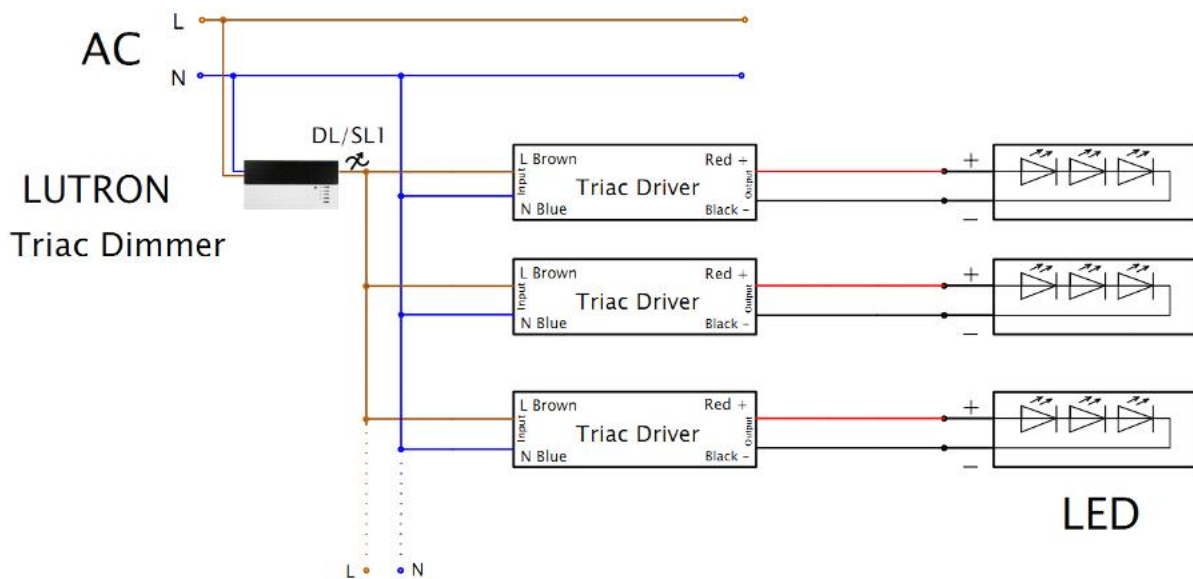
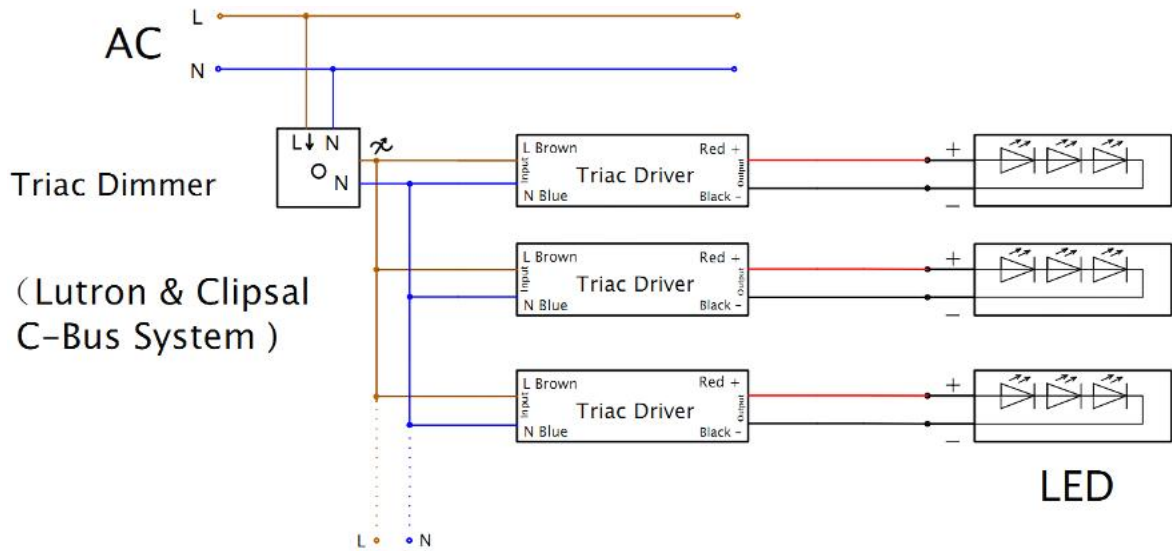
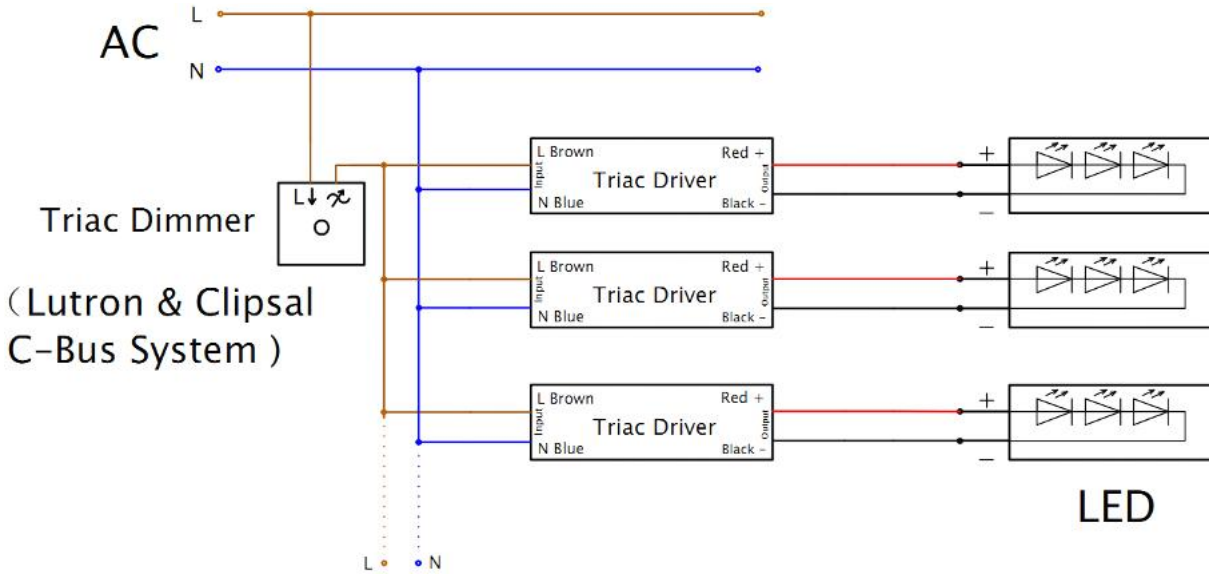
※ Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a triac dimmer.

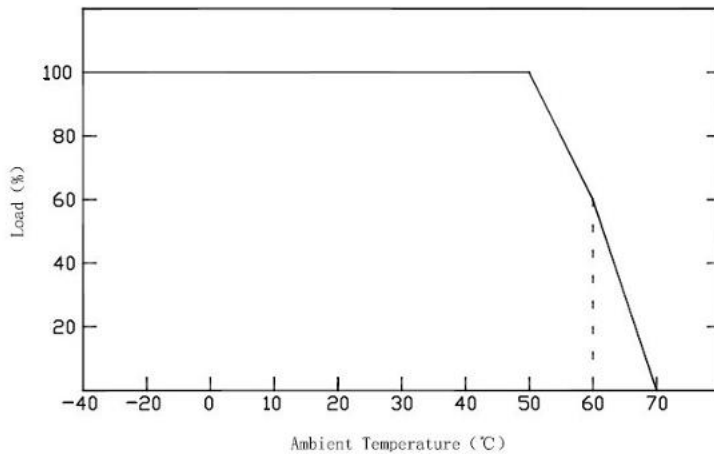
※ Compatible with Leading edge or tailing edge triac dimmers.

※ 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

## 30W Triac Dimmable Driver - PWM Output Version

### ■ 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;