

Constant Voltage Triac dimmable mesh driver---300W series



Features

- Output constant voltage
- AC input :180-250VAC (or100-130V AC can customized)
- High efficiency :up to 87%
- Protections:short circuit/over loading/over current
- Easy installation
- Non waterproof
- Cooling by free air convection
- Work with leading edge TRIAC dimmers
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting

Specification

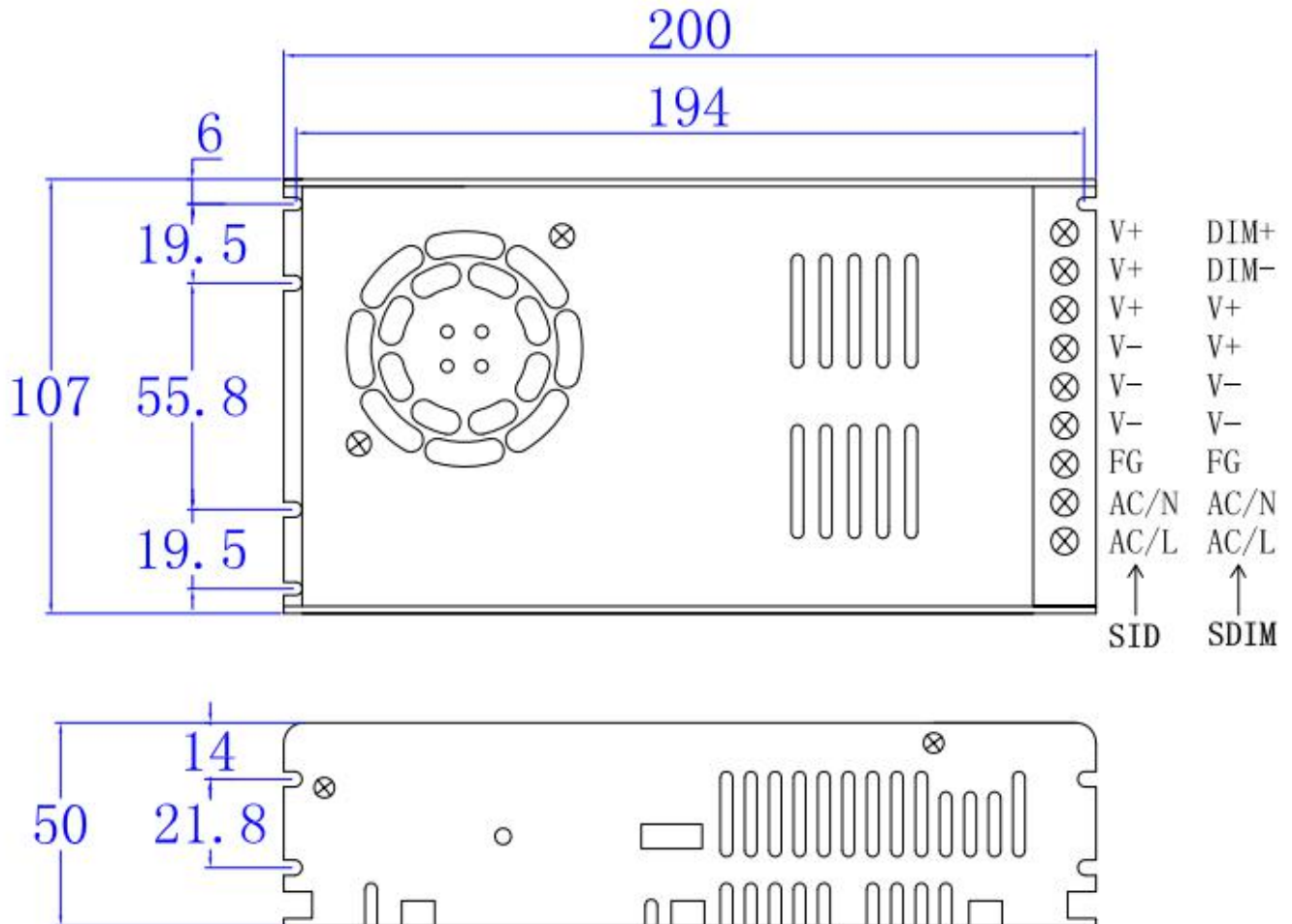
- 3 years warranty

Model		STD-12300	STD-24300	STD-36300	STD-48300
Output	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±0.5V			
	Rated current	25A	12.5A	8.3A	6.25A
	Rated power	300W			
Input	Voltage Range	180~250V AC (100-130V AC can customized)			
	Frequency Range	47~63HZ			
	Power Factor (Typ.)	PF 0.6/220V			
	Full Load Efficiency(Typ.)	83%	85%	86%	87%
	AC Current(Typ.)	1.83A	1.78A	1.76A	174A
	Leakage current	< 0.70mA/220VAC			
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.			
	Over load	≤120%			
	Over Current	≤1.4*I out			
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 10min./1 cycle,period for 60min.each along X,Y,Z axes			
Safety	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			
Others	Weight	0. 65Kg			
	Size	200*107*56mm (L*W*H)			
	packing	400*268*260mm 20PCS			

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Notes	<p>1. All parameters NOT specially mentioned are measured at 220VAC input , rated load and 25℃of ambient temperature.</p> <p>2..To extend the driver's using life ,please reduce the loading when start the drivers at lower input voltage.</p>
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■300W triac dimmable driver Mechanical Specification



S7: 200*107*50mm

※Input AC FG ground wire AC (L) & AC (N)

※Output Positive pole is(V+), Negative is(V-) (terminals)

■Dimming Operation

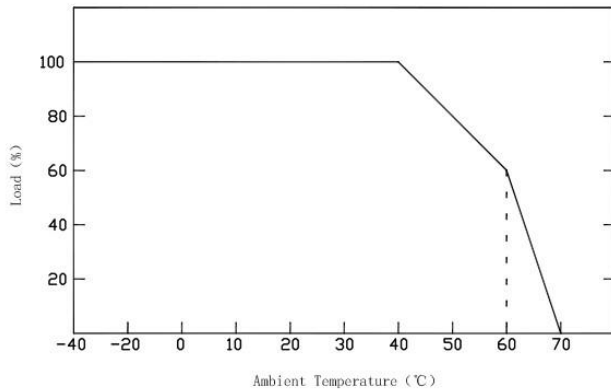
※Output power level can be adjusted through input terminal of the AC phase line(L) by connecting a triac dimmer.

※Compatible with Leading edge triac dimmers.

※please try to use the small power dimmer in order to access to a wider dimming range because high-power dimmer is difficult to achieve the output current to zero

■Derating Curve

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※To extend their life, please refer to the Derating Curve and derate according to the temperature.

■ Connecting Diagram

Diagram 1

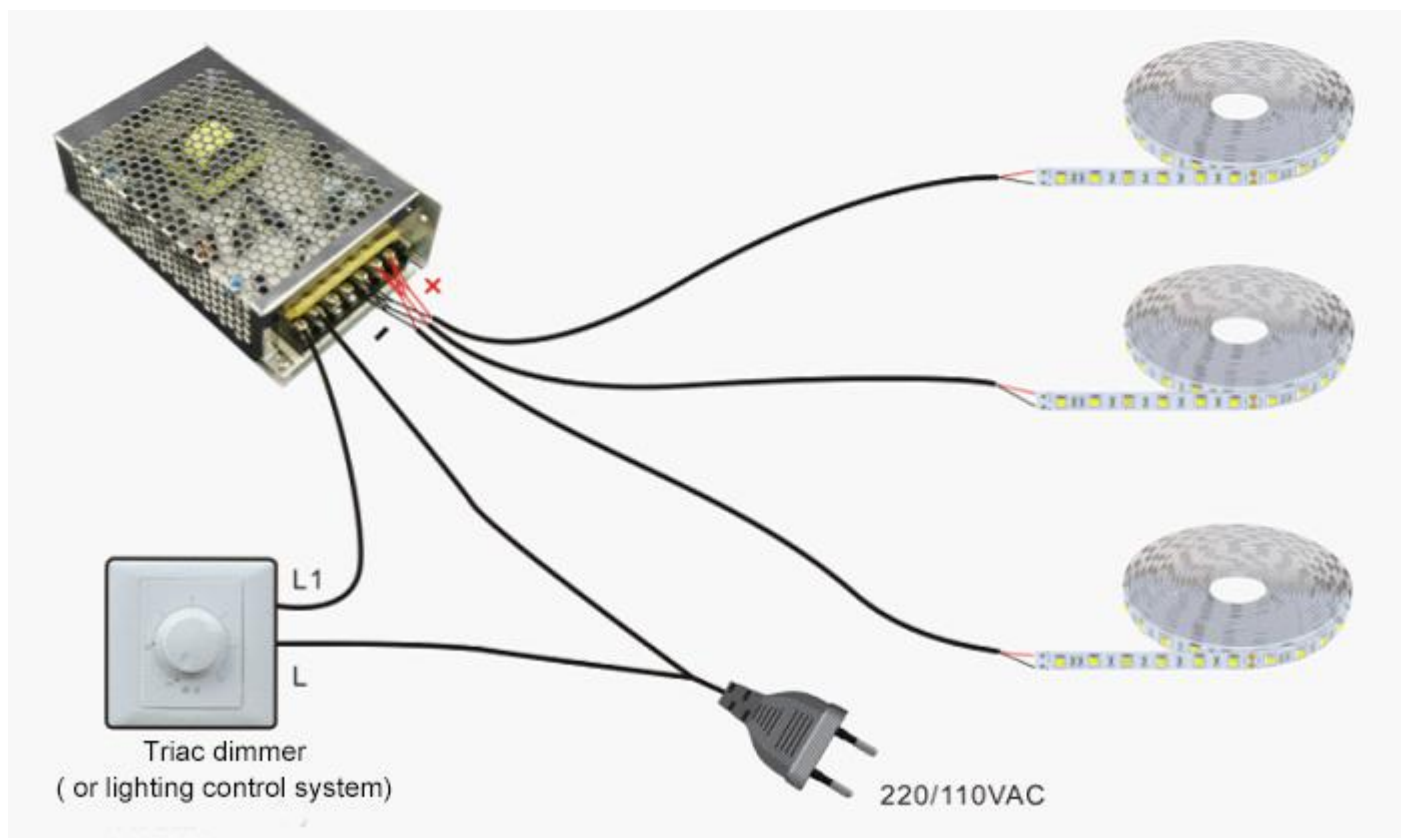


Diagram 2

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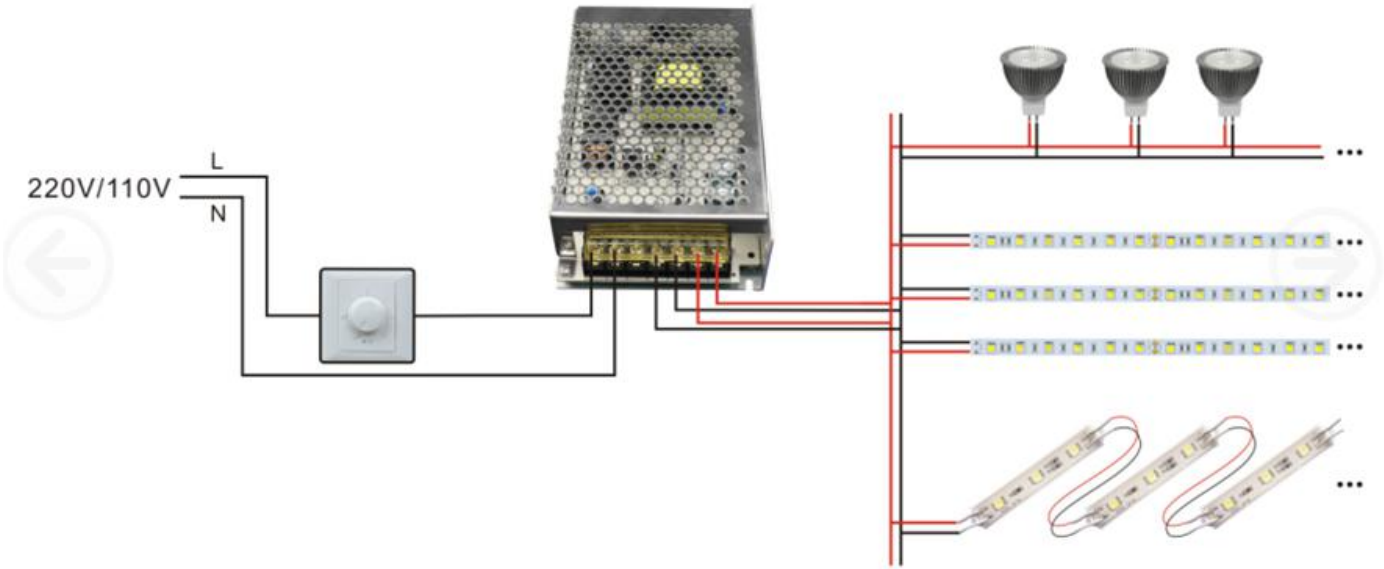
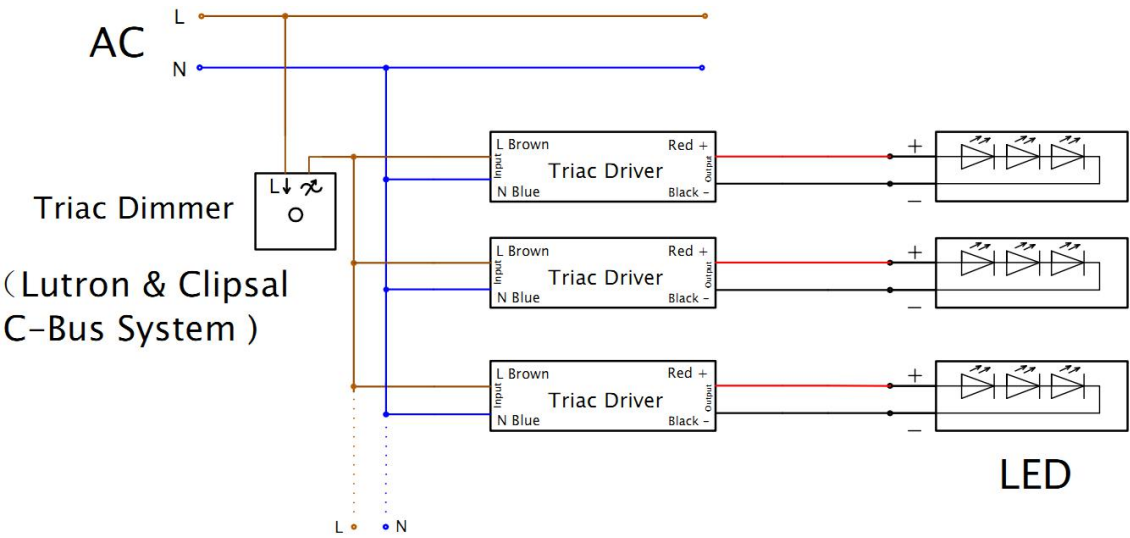


Diagram 3



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Diagram 4

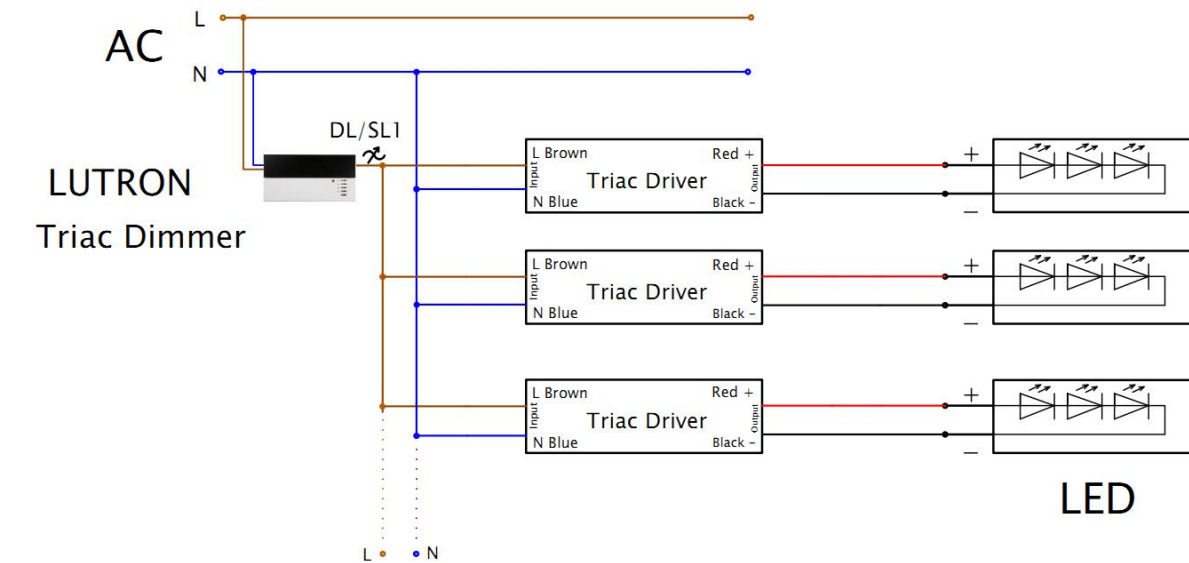
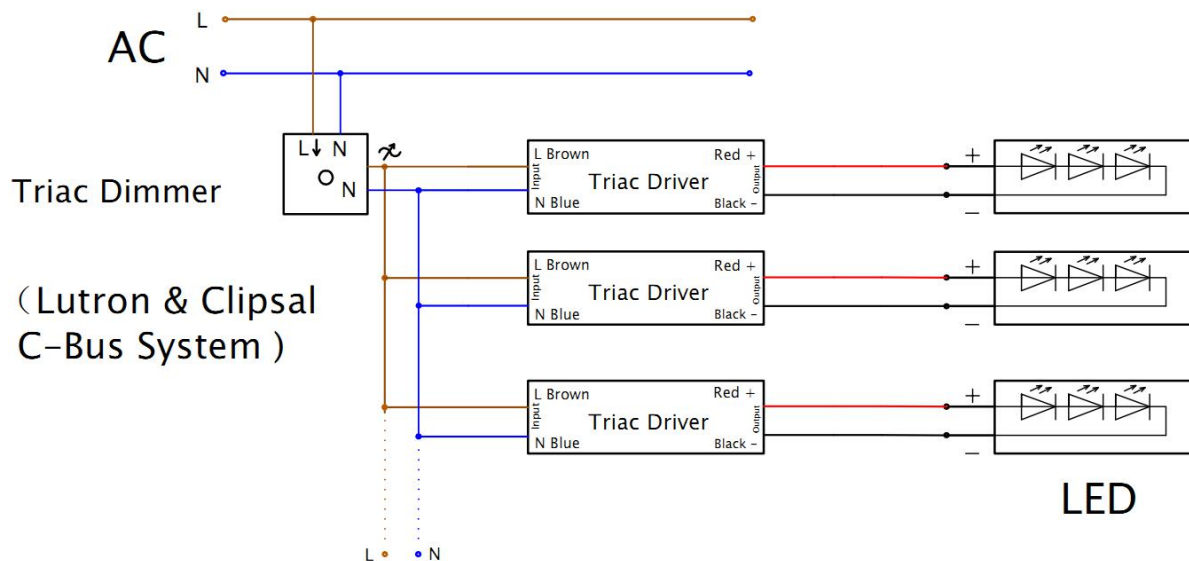


Diagram 5



※The installation notice:

1. When in installation, the power supplies must not be pile up in the same place.
2. Please make sure the power supply is installed with adequate ventilation around it to allow for heat dissipation. Do not put a lot of power supplies into a narrow spaces.
3. When you install several power supplies, These power supplies require a MINIMUM clearance of 20 cm for security use space.

A fan for heat dissipation must be included, if the driver be installed inside of the distribution box.

And make sure the environment temperature less than 50 degree centigrade.

Any question please feel free to contact with us(Shengchang)