Triac Dimmable Driver - Constant Voltage PWM Output Series 100W

■Features

·Output constant voltage
·Range   AC input:180-240VA
·Efficiency :up to 83%
·Protections:short circuit/over loading/over current
 /Over temperature
 ·Full protection aluminum housing easy installation
 IP66 design for outdoor installation
·Cooling by free air convection
·Work with leading edge,or trailing edge Triac dimmer
·Strong compatibility, flicker-free dimming
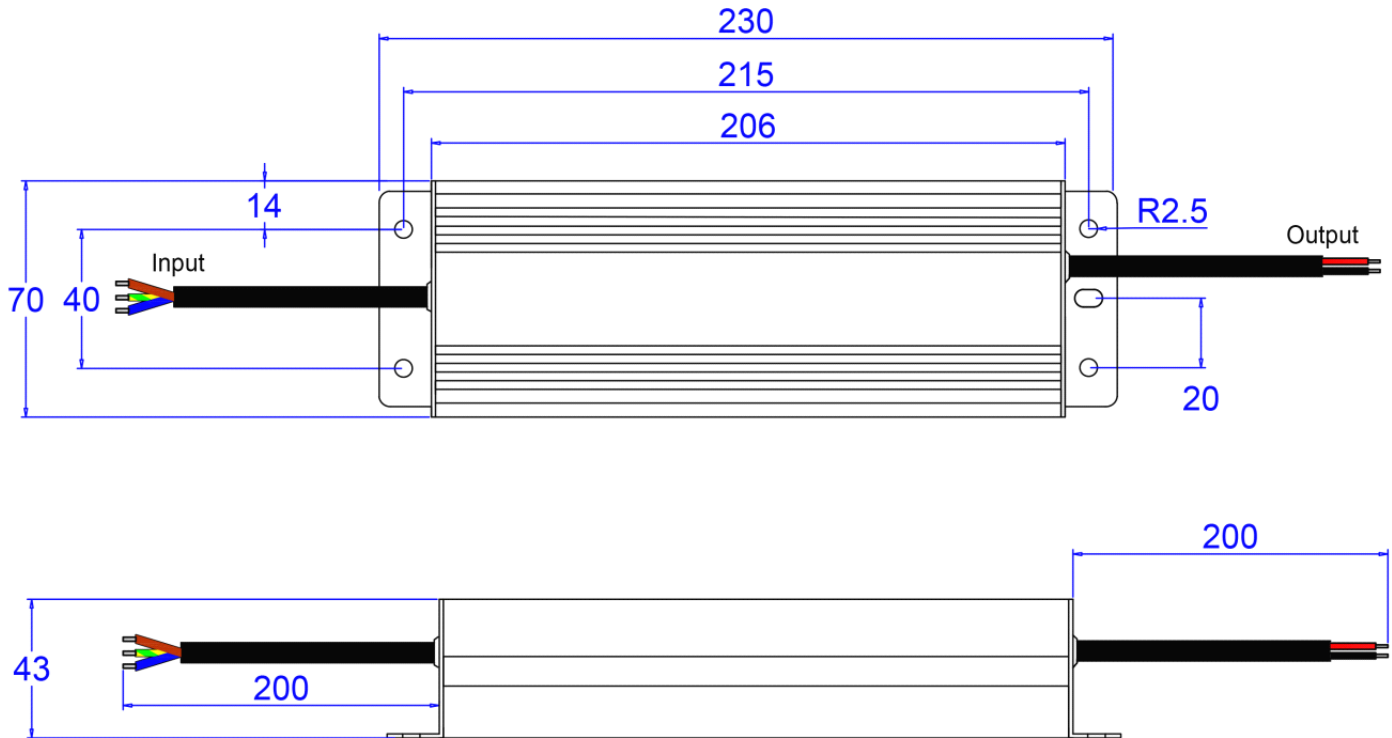·Suitable for LED lighting and moving sign applications

CE ⊕ 🔲 🔀 IP66 SELV

■ Specification

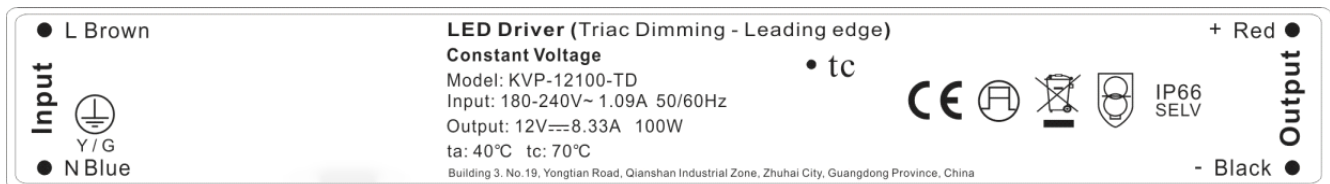|	Model	SC-100-12	SC-100-24
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Rated current	8.3A	4.17A
	Rated power	100W	
Input	Voltage Range	180-240V AC	
	Frequency Range	47-63HZ	
	Power Factor	PF≥0.65/180VAC PF≥0.65/230VAC PF≥0.65/240VAC(Full loading)	
	Full Load Efficiency(Typ.)	80%	83%
	AC Current (Max.)	1.09A	1.05A
	Leakage current	<0.50mA	
Protection	Short Circuit	Hiccup mode,recovers automatically after fault condition is removed	
	Over load	≤120%	
	Over Current	≤1.2*I out	
	Over Temperature	100℃±10℃ shut down o/p voltage, re-power on to recover	
Environment	Working TEMP.	-40-+70℃	
	Working Humidity	20-95%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&EMC	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:100MΩ/500VDC/25℃/70%RH	
	EMC EMISSION	EN55015,EN61000-3-2,3 (≥60%loading)	
Others	Weight	1.1Kg	
	Size	230*70*43mm(L*W*H)	
	packing	245*75*65mm inner box340*275*170mm outside carton10 PCS /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
	4. Loading range from 5% to 100%

■Mechanical Specification

■ Label

※**Input Rubber cable:** H05RN-F 3G 1.0mm²,the green/yellow cable connect with (FG) ,Brown with AC (L),Blue with AC(N)

※**Output rubber cable :**H07RN-F 2*1.5mm² 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.

■Dimming Operation

※Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a triac dimmer.
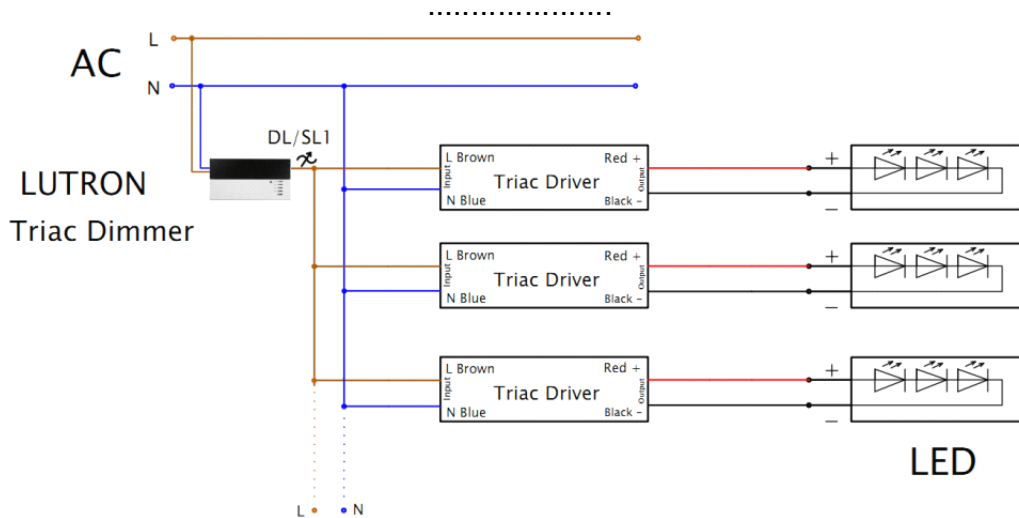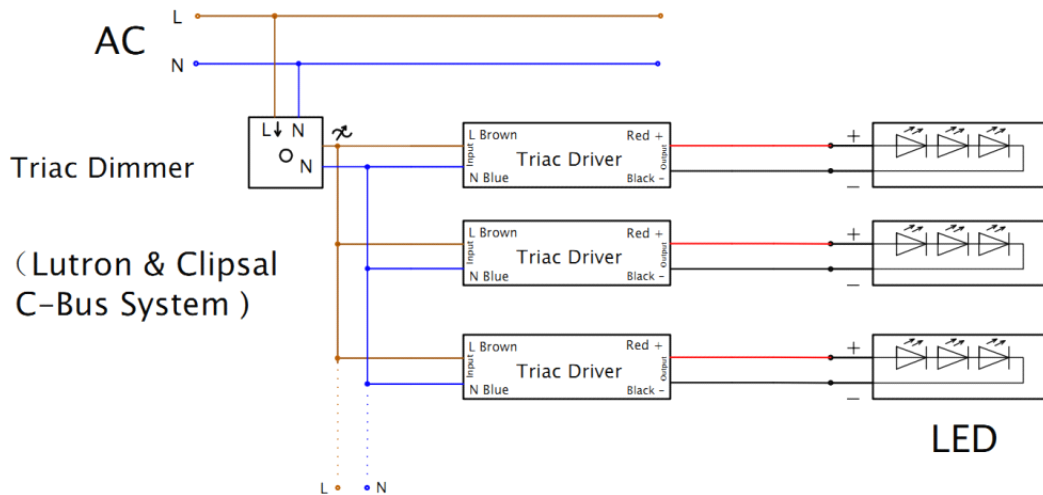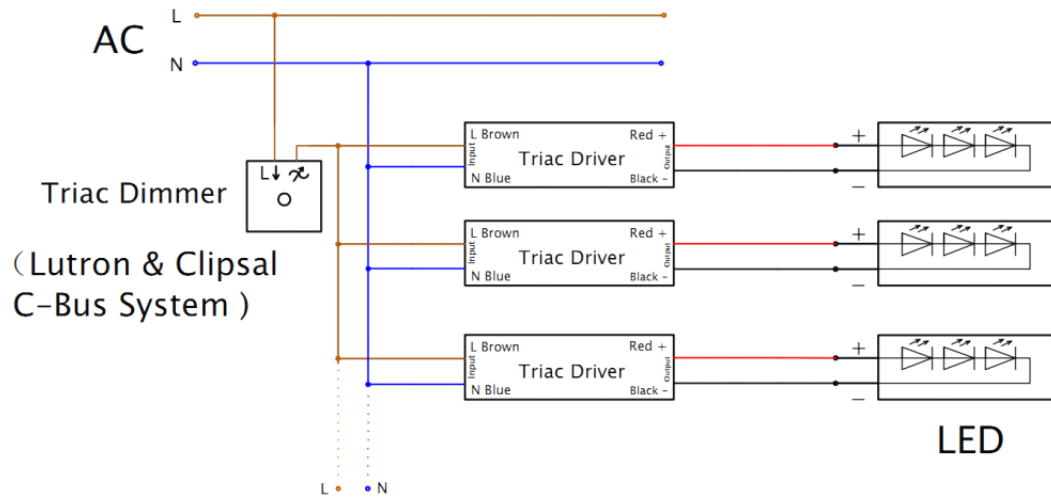
※Usually matching with leading edge Triac Dimmers (In order to matching trailing edge dimmer can be customized.)

※please try to use the small power dimmer, have access to a wider dimming range, high-power dimmer is difficult to

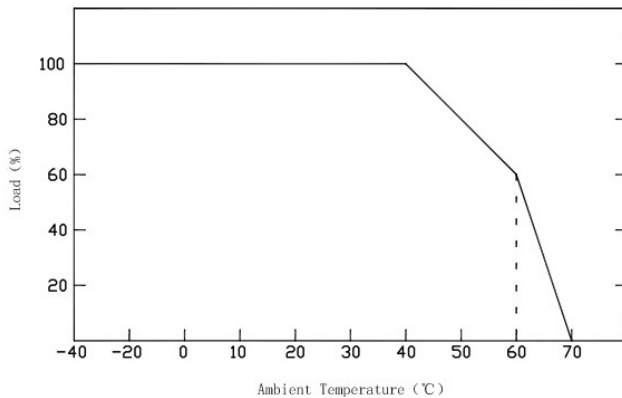# Triac Dimmable Driver - Constant Voltage PWM Output Series 100W

※please try to use dimmers with power at least 3 times as the output power of the driver.

■ Connecting Diagram

Triac Dimmable Driver - Constant Voltage PWM Output Series 100W

■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 Wellforces