

120W Triac Dimmable constant voltage LED driver



■ Features:

- ·Output constant voltage
- ·Input voltage range 100-130VAC/170-265VAC
- ·Built-in PFC function, PF> 0.70
- ·Efficiency > 84%
- ·Protections:short circuit/over voltage/over heat
- ·IP67 design for indoor or outdoor installations
- ·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
- ·Compliance to worldwide safety regulations for lightings.
- ·3 years warranty



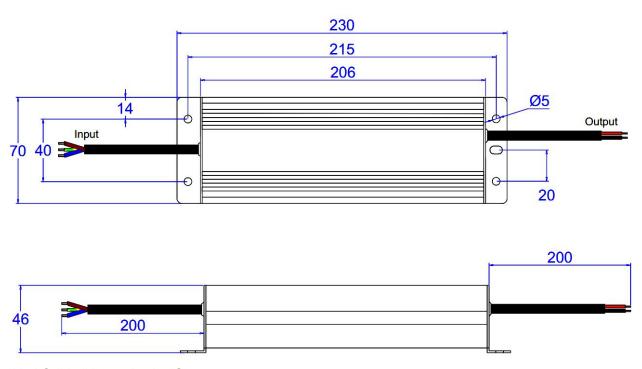
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model		SMT-012-120VT	SMT-024-120VT	SMT-036-120VT	SMT-048-120VT
Output	DC Voltage	12V	24V	36V	48V
	Voltage Accuracy	±0.5V	±0.5V	±0.5V	±0.5V
	Rated current	10.00A	5.00A	3.33A	2.50A
	Rated power	120W			
Input	Voltage Range	100~130V AC/170~265V AC			
	Frequency Range	47∼63HZ			
	Power Factor (Typ.)	$PF \ge 0.70/110V, PF \ge 0.70/170V, PF \ge 0.70/220V, PF \ge 0.70/265V$			
	Full Load Efficiency (Typ.)	>84%	>84%	>84%	>84%
	AC Current (Typ.)	1.86A/110VAC 1.20A/170VAC 0.93A/220VAC 0.77A/265VAC			
	Leakage current	< 0.27mA/110V/220VAC			
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition			
		is removed.			
	Over voltage	≦140VAC(100~130V), ≦270VAC(170~265V)			
Environ ment	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	$10{\sim}500$ Hz, 2G 10min./1 cycle, period for 60min.			
		each along X,Y,Z axes			
Safety& EMC	Safety standards	EN-60950-1, 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: 100MΩ/500VDC/25°C/70%RH			
	EMC EMISSION	Compliance toEN55015,EN61000-3-2 (≧50%load)			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11,EN61547			
		Alight industry level (surge4KV)			
Others	Weight	1.3Kg			
	Size	230*70*46mm(L*W*H)			
	packing	329*279*176mm	, 10PCS/ctn		

1. All parameters NOT specially mentioned are measured at 110V/230VAC input , rated load and 25° C of ambient temperature.

Notes

- 2. Ripple& noise are measured at 20MHz of bandwidth by using a 12"twisted pair-wire terminated with a 0.1uf &47uf parallel capacitor.
- 3. Tolerance:includes set us tolerance,line regulation and load regulation .

■ Mechanical Specification

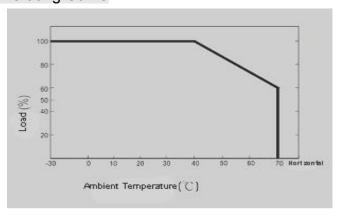


- %Input with AC (L), (N), earth wire(G)
- %Output cord: Red is (DIM+) ,Black is (DIM-)

■Dimming Operation

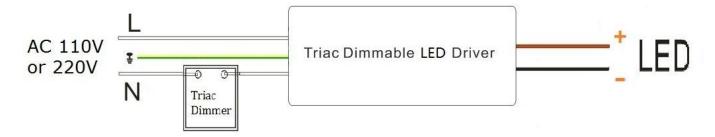
- *Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a triac dimmer.
- ※Compatible with Leading edge or tailing edge triac dimmers.
- **please try to use the small power dimmers, which have access to a wider dimming range, high-power dimmer is difficult to achieve the output current to zero

■Derating Curve



*Load carried in accordance with the load derating curve, according to the ambient temperature derating, in order to extend the working life.

■ Simple Connection Diagram



■Connecting Diagram

