

45W Triac Dimmbale Driver - PWM Output Version



Features

- Output constant voltage
- Universal AC input/ : 90~130VAC or 180~240VAC
- Built-in active PFC function
- High efficiency :up to 98%
- Protections:short circuit/over loading/over current
- Full protection plastic housing
- Easy 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
- Compliance to worldwide safety regulations for lighting

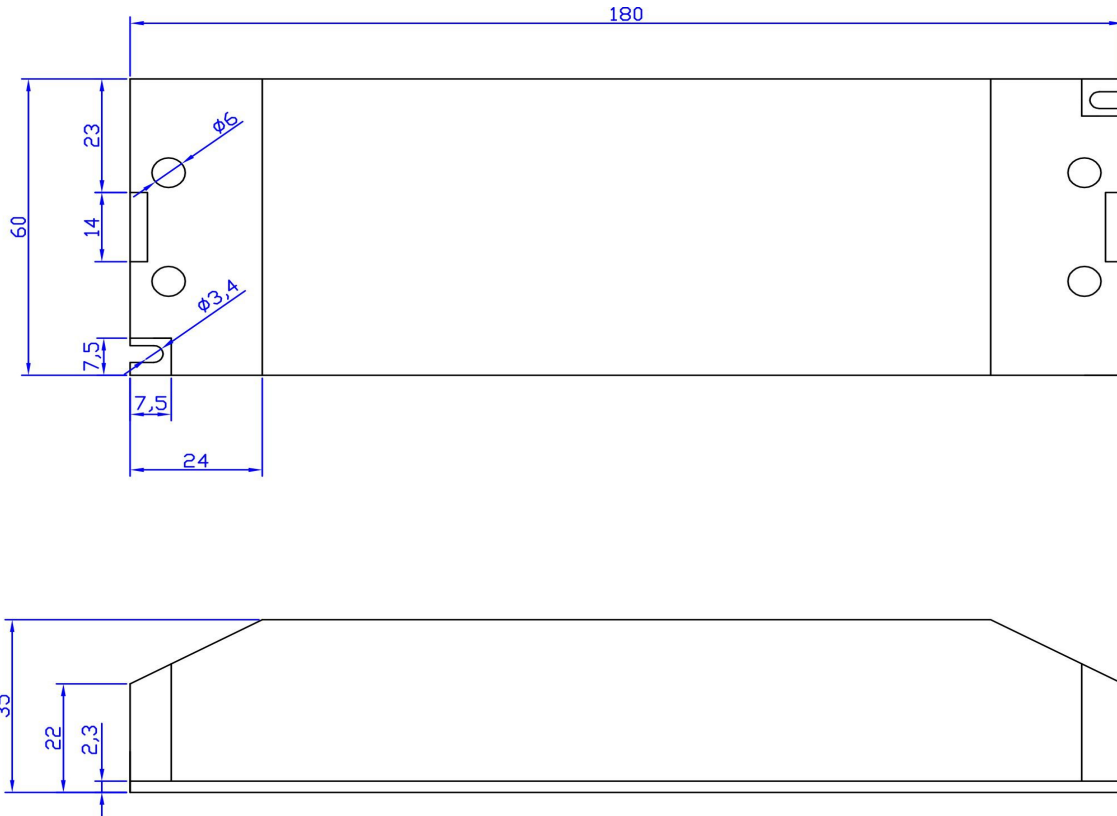
Specification



Model		SC-45-12	SC-45-24
output	DC Voltage	12V	24V
	Voltage Tolerance	$\pm 0.5V$	
	Rated current	3.75A	1.87A
	Rated power	45W	
input	Voltage Range	90~130VAC or 180~240VAC	
	Frequency Range	50~60HZ	
	Power Factor (Typ.)	PF ≥ 0.90	
	Efficiency (Typ.)	82%	84%
	AC Current (Typ.)	0.28A	0.27A
	Leakage current	< 0.70mA/110VAC	
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed	
	Over Loading	$\leq 120\%$	
Environment	Working TEMP.	-40~+60°C	
	Working Humidity	20~90%RH, non-condensing	
	Storage TEM.,Humidity	-40~+80°C, 10~95%RH	
	TEMP.coefficient	$\pm 0.03\%/^{\circ}C$ (0~50°C)	
	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	
	Isolation resistance	I/P-O/P: 100M Ω /500VDC/25°C/70%RH	
	EMC EMISSION	EN55015,EN61000-3-2,3 ($\geq 50\%$ loading)	
	EMC IMMUNITY	EN61000-4-2,3,4,5,6,11(Surge 4KV)	
Others	Net.Weight	0.5KG	
	Size	180*60*35mm (L*W*H)	
	packing	355*215*215	20PCS
Notes	1. All parameters if NOT specially mentioned are measured at 110VAC input , rated load and 25°C of ambient temperature. 2. To extend the driver's using life ,please reduce the loading when start the drivers at lower input voltage. 3.Loading should be 60-100%		

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■45W triac dimmable driver Mechanical Specification

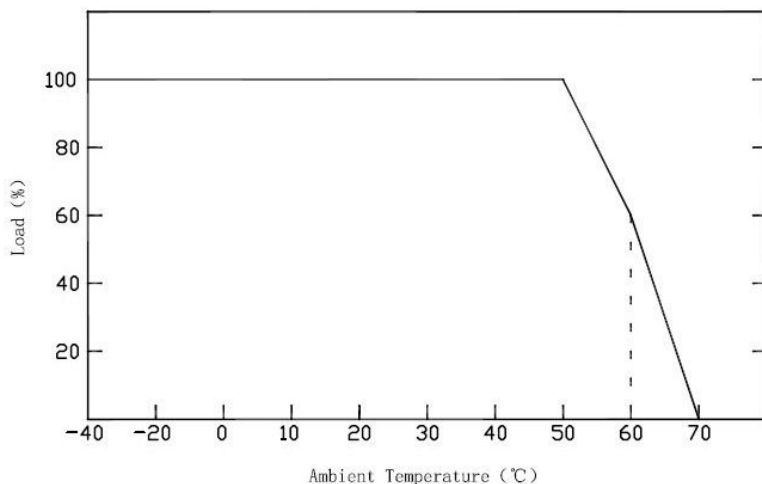


- ※Input Brown with AC (L),Blue with AC(N)
- ※Output Red is (DIM+) ,Black is (DIM-)
- ※Note: Any other requests we can customized.

■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

■Derating Curve



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

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■ Connecting Diagram

