

TRIAC Dimmable Driver Series 30W

Series: TRIAC-12VIP66-30W | TRIAC-24VIP66-30W | TRIAC-48VIP66-30W



Features

Output:	Constant Voltage
Range:	200-240VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 79%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP20
Dimming features:	Fine-tune the voltage by the knob
Dimming function:	<u>Phase dimming</u> : work with leading edge, MLV and trailing edge, ELV, TRIAC dimmers.
Dimming range:	0-100%
Application:	Suitable for the application of LED lighting
Warranty:	5 years warranty

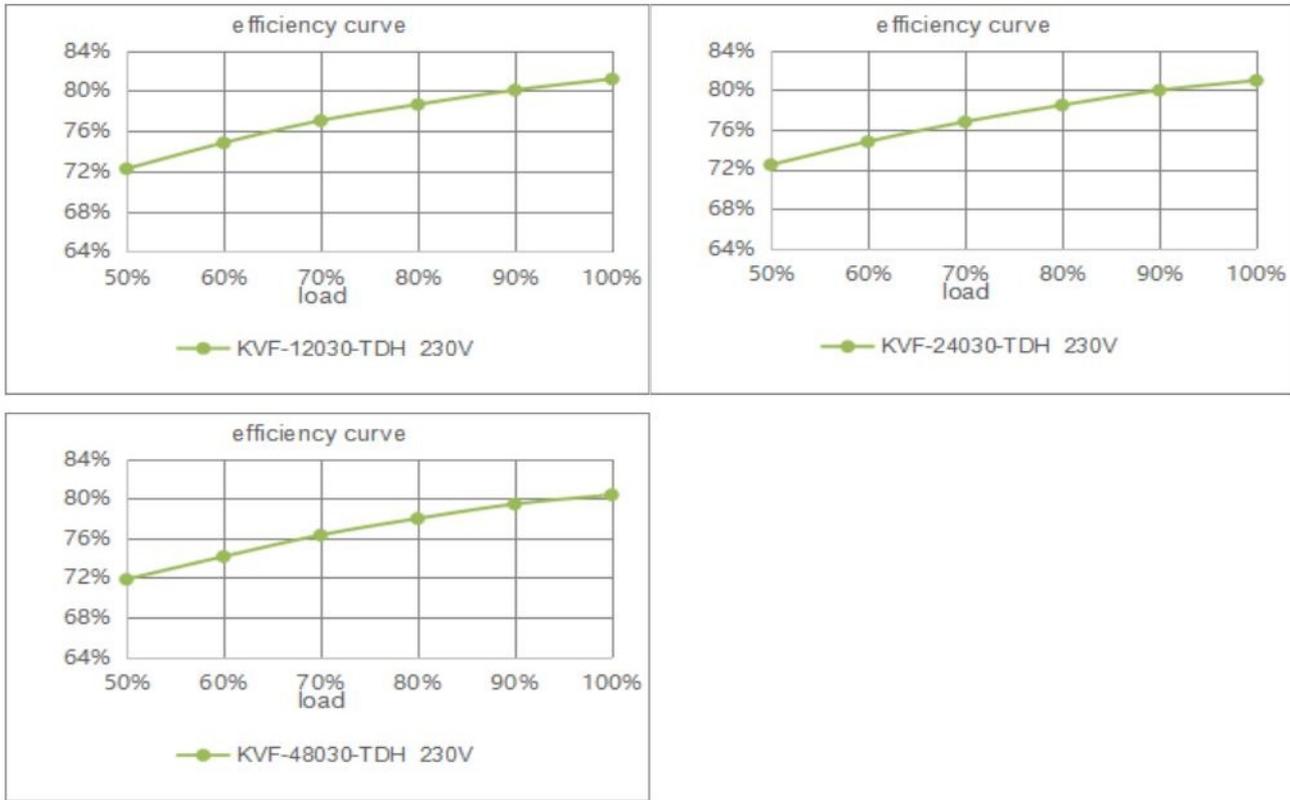
Specification

Phase cut /Triac dimmable driver-PWM output Dimmable LED driver 30W

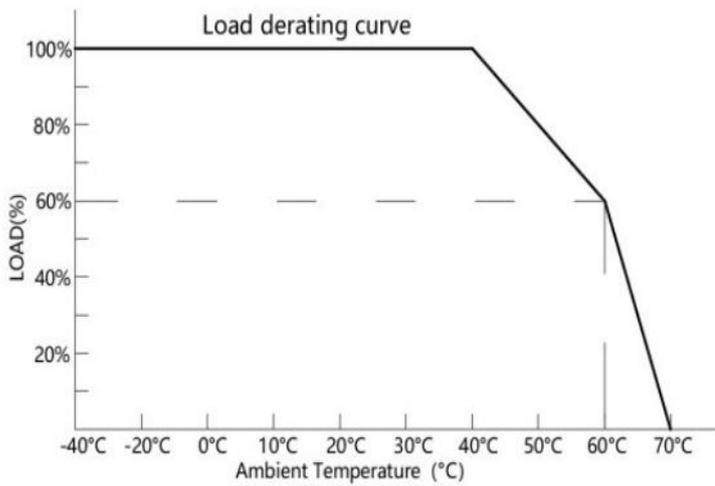
Model		TRIAC-12VIP66-30W	TRIAC-24VIP66-30W	TRIAC-48VIP66-30W
Certificate		ENEC / SAA / CCC / CE / CB / RoHS / Reach		
Output	DC Voltage	12V (10-13V adjust by knob)	24V (21.5-25.5V adjust by knob)	48V (46-50V adjust by knob)
	Voltage Tolerance	±0.5V		
	Voltage Regulation	≤2%	≤1%	
	Rated current	2.5A	1.25A	0.63A
	Rated power	30W		
	Load Regulation	≤0.5%		
Input	Voltage Range	200-240VAC		
	Frequency Range	47 - 63Hz		
	THD(Typ.) @ full load	≤20%@200VAC @230VAC @240VAC		
	Efficiency @ full load	79%@230VAC		
	AC Current (Max.)	0.22A		
	Inrush Current (Typ.)	30A,90us@230VAC		
	Leakage current	<0.5mA		
Protection	Short Circuit	Shut down o/p voltage, re-power on to recover after fault condition removed		
	Over Load	≤120% shut down o/p voltage,recovers automatically after fault condition is removed		
	Over temperature	Shell surface temp.100°C±10°C shut down o/p voltage,automatically recover after the temperature drops.		
Environment	Working TEMP.	-40~+60°C (see below derating curve)		
	Working Humidity	20 - 90%RH non-condensing		
	Storage TEM.,Humidity	-40 - +80°C,10 - 95% RH non-condensing		
	TEMP.coefficient	±0.03%/°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(EU)		
	Withstand voltage	I/P-O/P:3.75KVAC(EU)		
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25°C / 70%RH		
	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3(EU)		
Others	Net Weight	0.22Kg		
	Dimension	155*54*19.7mm(L*W*H)		
	Packing	350*240*130mm 20pcs /CTN 9.57Kg/CTN		
Notes	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input,rated load and 25°Cof ambient temperature. Tolerance: includes set up tolerance and load regulation. 			

Efficiency Curve (efficiency vs output load)

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Derating Curve (output load vs TEMP.)



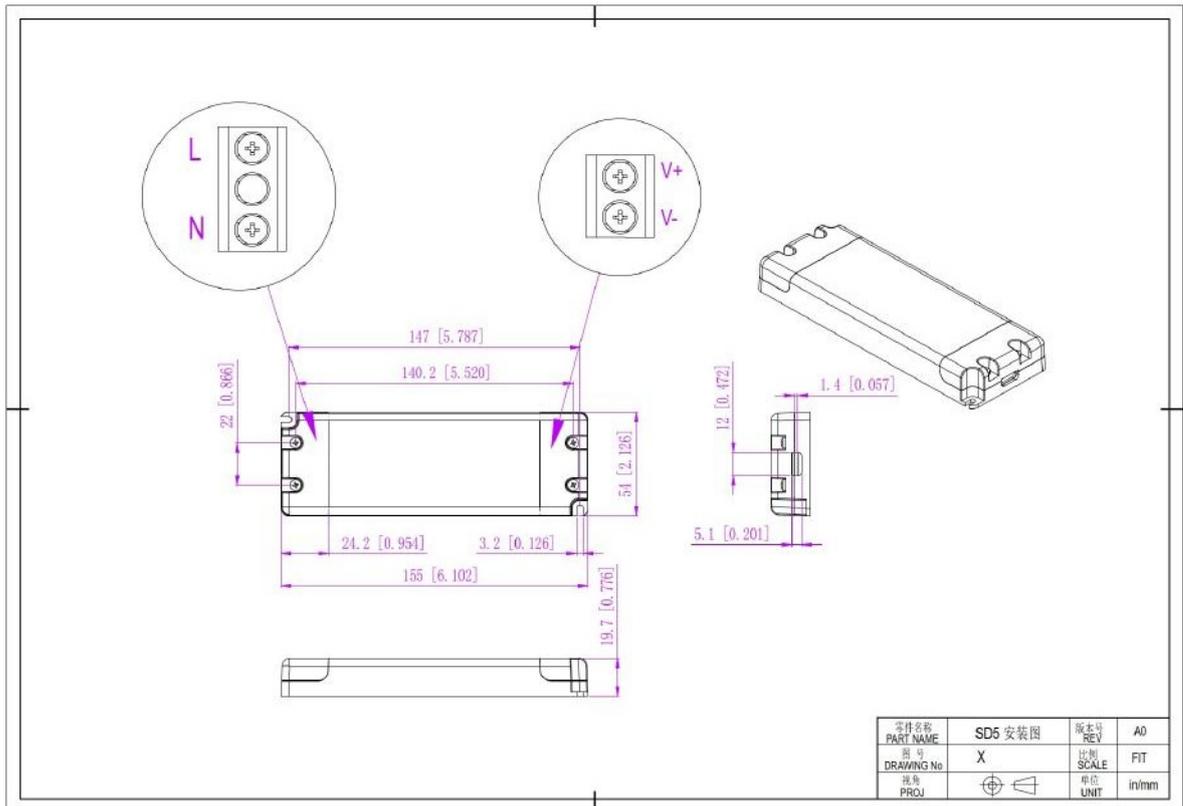
1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise. Therefore, we recommend the power supply to reserve a certain amount of load to avoid overloading.

Power factor curve

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Mechanical Specification



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12V&24V&48V Version

1. Input (L) and (N) with wire to be connected with AC.
2. Output LED SEC with DG126 terminals 2P: output Positive (LED+), output negative (LED-). Connected to LED Lamps.
3. Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

Warm tips:

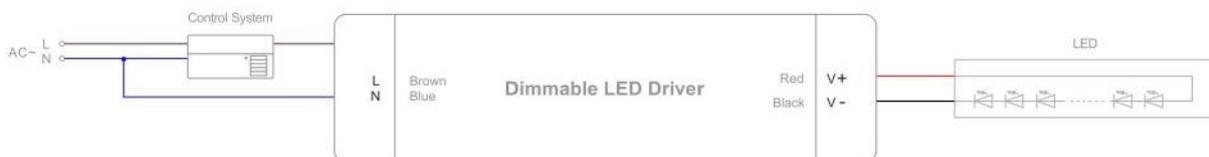
1. Any other requests for, we can customized.

Dimming Operation and Connecting Diagram

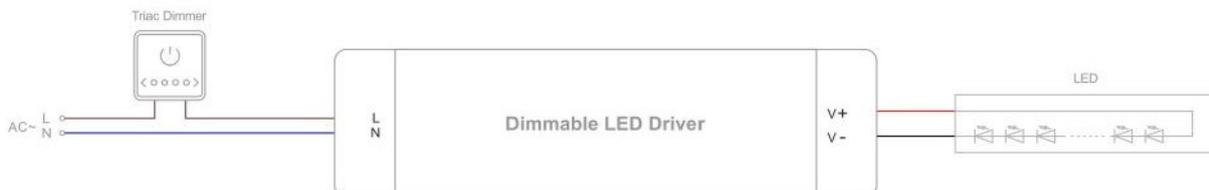
TRIAC/Phase cut dimming

1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
2. Working with leading edge, MLV and trailing edge, ELV, TRIAC dimmers or light system.
3. Min. loading is about 10%.
4. Please try to use dimmers with power at least 1.5 times as the output power of the driver.

Triac



Triac



Instruction

1. This driver should be installed by qualified and professional person.
2. Please make sure the driver 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.
4. If driver Cannot work normally, don't maintain privately.

Have any questions? Please contact ATOM LED — we're happy to help.
Please visit our website or contact us for more information.