

## Phase cut /Triac dimmable driver-PWM output KVF-TDWS series 30W

Whole Family  
KVF-XXXXX-TDWS12V 24VDC  
30W 36W 60W 96W 100W



### ■Features

- Output constant voltage
- UL, cUL listed, Class 2, Class P, Type HL
- Universal AC input: 100-277VAC
- Power Factor: up to 0.99
- High efficiency : up to 80%
- Dimming range: 0-100%
- Load: 10-100%
- Protection:short circuit/over loading/ Over temperature
- PWM output, does not change the color index
- Full protection plastic case, for dry and damp locations
- Flicker-free
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
- Cooling by free air convection
- Suitable for LED lighting and moving sign applications



Class 2 Class P

### ■Specification

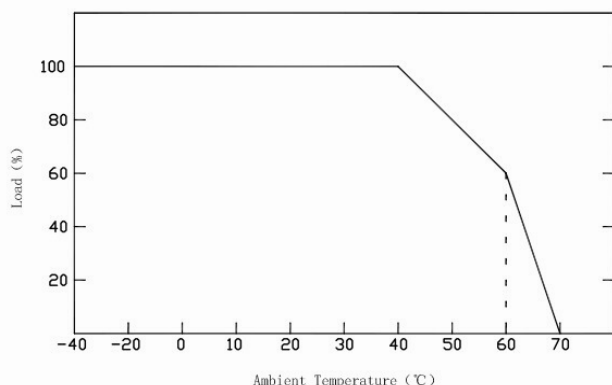
Model		KVF-12030-TDWS	KVF-24030-TDWS
Certificates		FCC UL cUL Class 2	FCC UL cUL Class 2
Output	DC Voltage	12V	24V
	Rated Current	2.5A	1.25A
	Rated Power	30W	
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Load Regulation	±1%	
Input	Voltage Range	100-277VAC	
	Frequency Range	47-63Hz	
	Power Factor (Typ.) @ full load	0.99@120VAC 0.95@277VAC	0.99@120VAC 0.95@277VAC
	THD (Typ.) @ full load	120V<10%; 277V<15%	
	Efficiency (Typ.) @ full load	120V 79%; 277V 80%	120V 79%; 277V 80%
	AC Current (Max.)	0.5A@100VAC	
	Inrush Current (Typ.)	120V--5A, 50%, 960us ; 277V--13A, 50%, 1ms	
	Leakage current	<0.50mA	
Protection	Short Circuit	120VAC Hiccup mode,recovers automatically after fault condition is removed 277AVC shut down o/p voltage, re-power on to recover after fault condition removed.	
	Over Loading	≤120% Hiccup mode,recovers automatically after fault condition is removed.	
	Over temperature	100℃±10℃ shut down o/p voltage, automatically recover after cooling.	
Environment	Working TEMP.	-40~+60℃ (see below derating curve)	
	Working Humidity	20~90%RH, non-condensing	
	Storage TEMP. 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	UL8750+UL1310, CAN/CSA-C22.2 No.250.13	
	Withstand voltage	I/P-O/P:1.88KVac	
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25℃/70%RH	
	EMC EMISSION	FCC 47 CRF Part 15, Subpart B	
others	Net. Weight	0.2Kg	
	Size	260*30*18.5mm (L*W*H)	
	packing	330*270*130mm/50pcs /CTN	

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### Notes

1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature.
2. To extend the driver's using life ,please reduce the loading at lower input voltage.

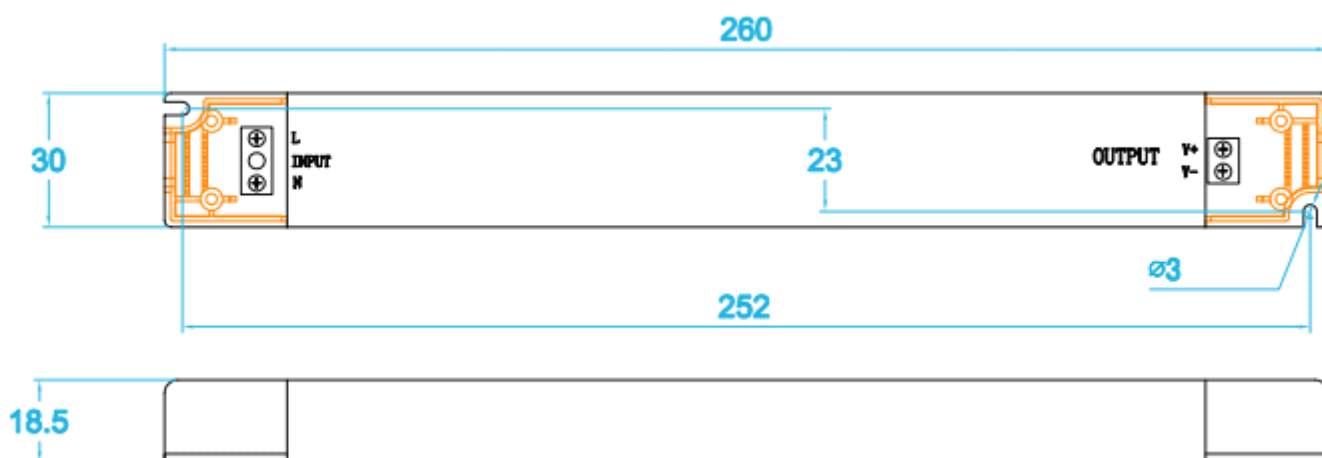
### Derating Curve



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

### Mechanical Specification

Unit: mm



※ Input with terminals Live(L) and Neutral(N) wires to be connected AC;

※ Output with terminals "+" Positive and "-" Negative to be connected led lighting.

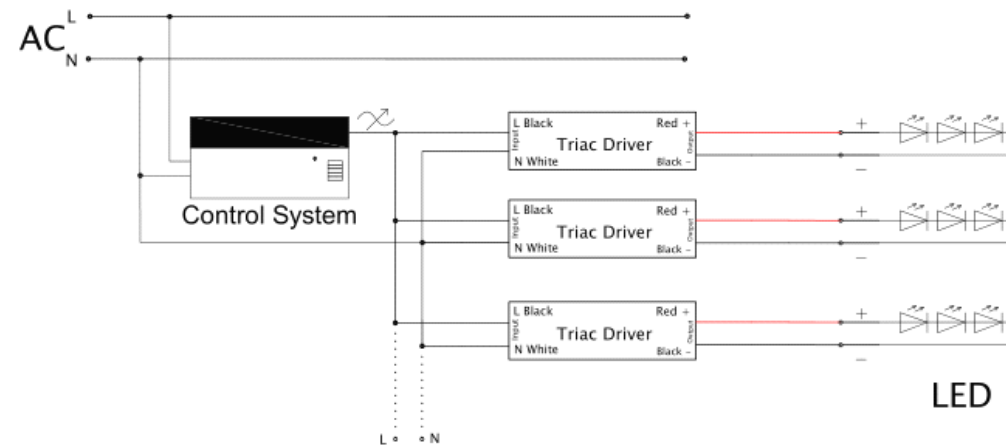
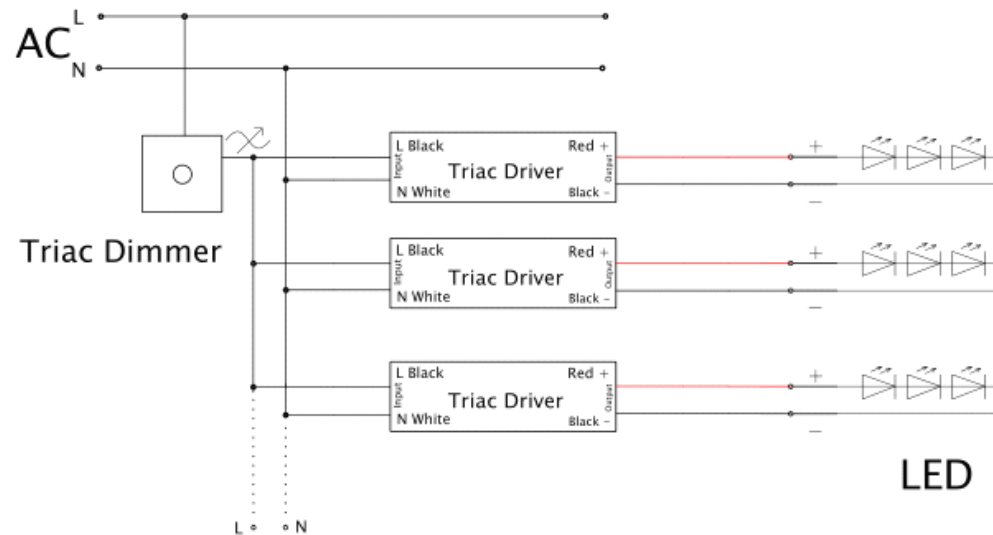
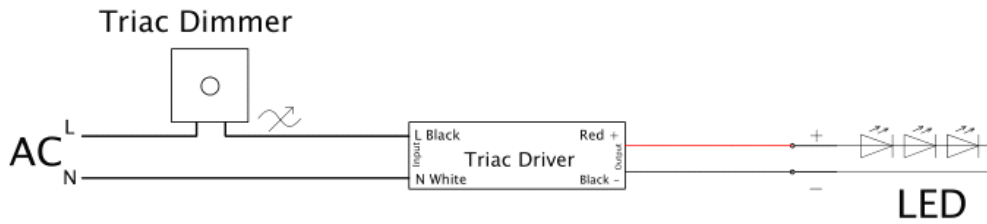
### Dimming Operation

※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.

※Usually matching with Forward phase , leading edge , Magnetic low voltage, triac dimmers, or Reverse phase, trailing edge ,Electric low voltage Dimmers.

※Please try to use dimmers with power at least 1.5 times as the output power of the driver.

### Connecting Diagram



#### ■ 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 question, please contact Zhuhai Shengchang.

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