

## High PF TRIAC dimmable driver with PWM output KVF series-CV 30W

### ■Features

- Output constant voltage
- Range AC input: 200-240VAC
- With slightly adjustable output voltage
- Efficiency :up to 79%
- Protections:short circuit/over loading/over current/over temperature
- Full protection plastic housing easy installation
- IP20 design for indoor 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



### ■ Specification

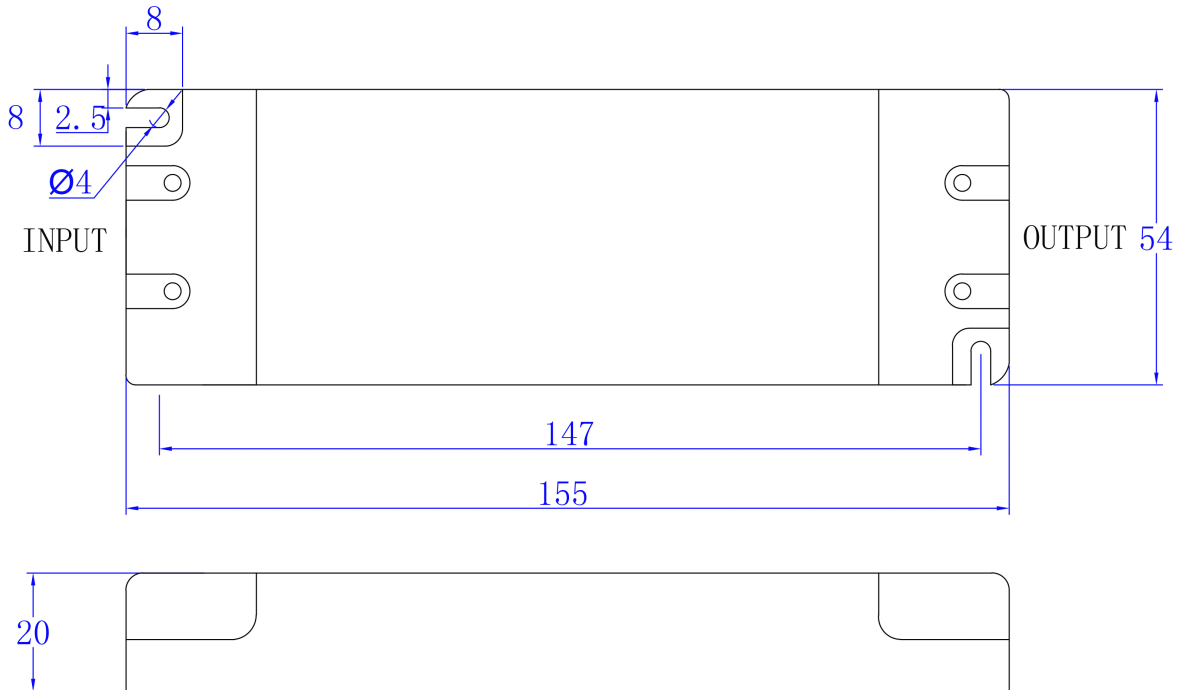


Model		KVF-12030-TDH	KVF-24030-TDH
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Rated current	2.5A	1.25A
	Rated power	30W	
Input	Voltage Range	200-240VAC	
	Frequency Range	47~63HZ	
	Power Factor	PF ≥ 0.97/200VAC PF ≥ 0.97/230VAC PF ≥ 0.97/240VAC(Full loading)	
	Full Load Efficiency(Typ.)	79%	79%
	AC Current (Max.)	0.22A	0.22A
	Leakage current	<0.50mA	
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition is removed	
	Over Loading	≅ 120% shut down o/p voltage, re-power on to recover	
	Over Current	≅ 1.2 *I <sub>out</sub>	
	Over Temperature	100°C ± 10°C shut down o/p voltage ,re-power on to recover	
Environment	Working TEMP.	-40~+70°C	
	Working Humidity	20-90%RH, non-condensing	
	Storage TEM.,Humidity	-40~+80 °C,10-95%RH	
	TEMP.coefficient	±0.03%/°C(0-50 °C)	
	Vibration	10-500Hz,2G 10min./1 cycle,period for 72min,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:100MΩ/500VDC/25 °C/70%RH	
	EMC EMISSION	EN55015,EN61000-3-2,3 (≅ 60%loading)	
Others	Net.Weight	0.21KG	
	Size	155*54*20mm (L*W*H)	
	packing	160*60*23mm for inner box ; 350*240*130mm for carton 40PCS/CTN	
Notes	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25°C of ambient temperature.</li> <li>2. Tolerance: includes set us tolerance, line regulation and load regulation .</li> <li>3. The power supply is considered as a component that will be operated in combination with final Equipment. Since</li> </ol>		

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	<p>EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualify EMC Directive on the complete installation again</p> <p>4. Loading range from 10% to 100%</p>
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## ■Mechanical Specification



**LED Driver ( Triac Dimming - Leading edge & Trailing edge)**

**Constant Voltage**

Model: KVF-12030-TDH

Input: 200-240V~ 0.25A 50/60Hz

Output: 12V<sub>DC</sub> 2.5A 30W

ta: 50°C tc: 90°C

• tc

IP20 SELV

CE

8AA-181012-BA

Made in China

LED SEC 0.5mm<sup>2</sup> - 2.5mm<sup>2</sup>

Volt Adj. 10V 13V

- ※Input (L) and (N) with wire to be connected with AC
- ※Output LED SEC output Positive (LED+) , output negative(LED-). Connected to LED light.
- ※ Suggested wire diameter:Input 0.75-2.5mm<sup>2</sup>; Output:0.5-2.5mm<sup>2</sup>.
- ※ 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.

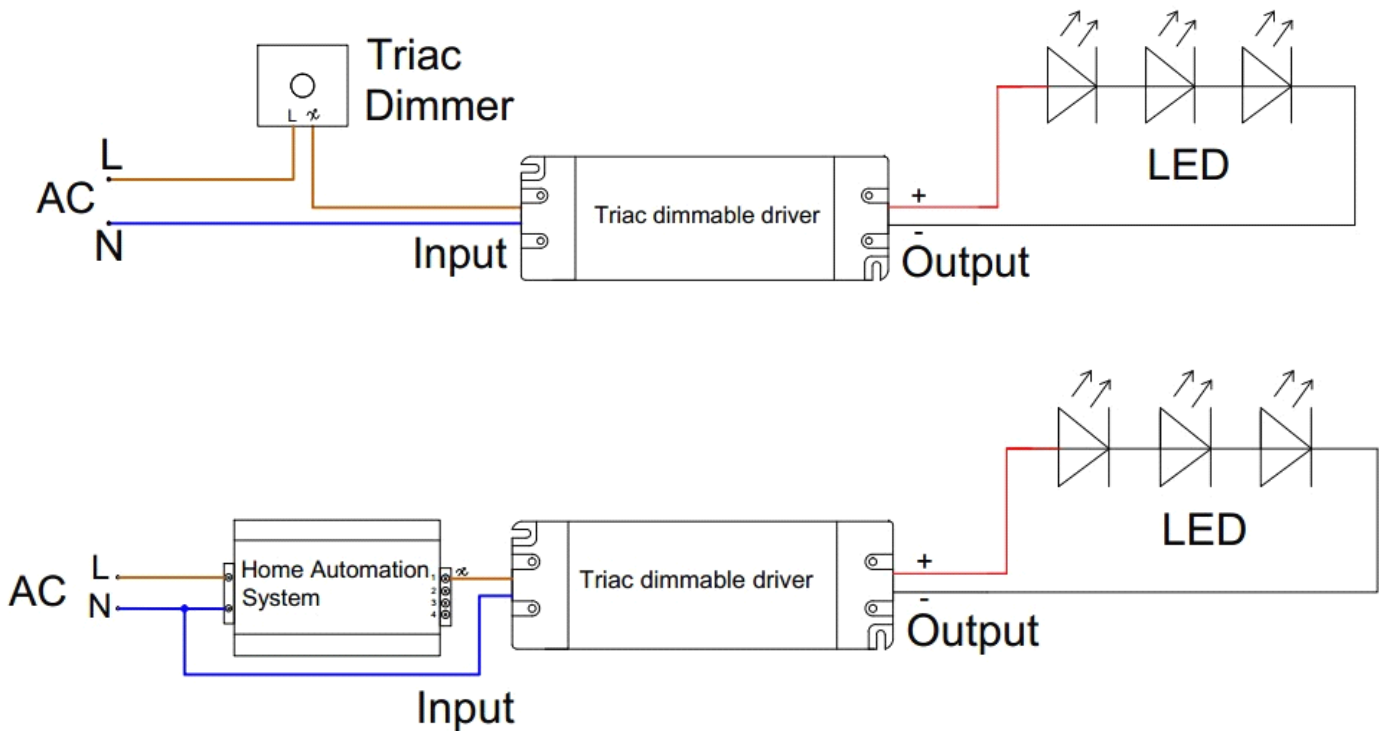
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## ■ Dimming Operation

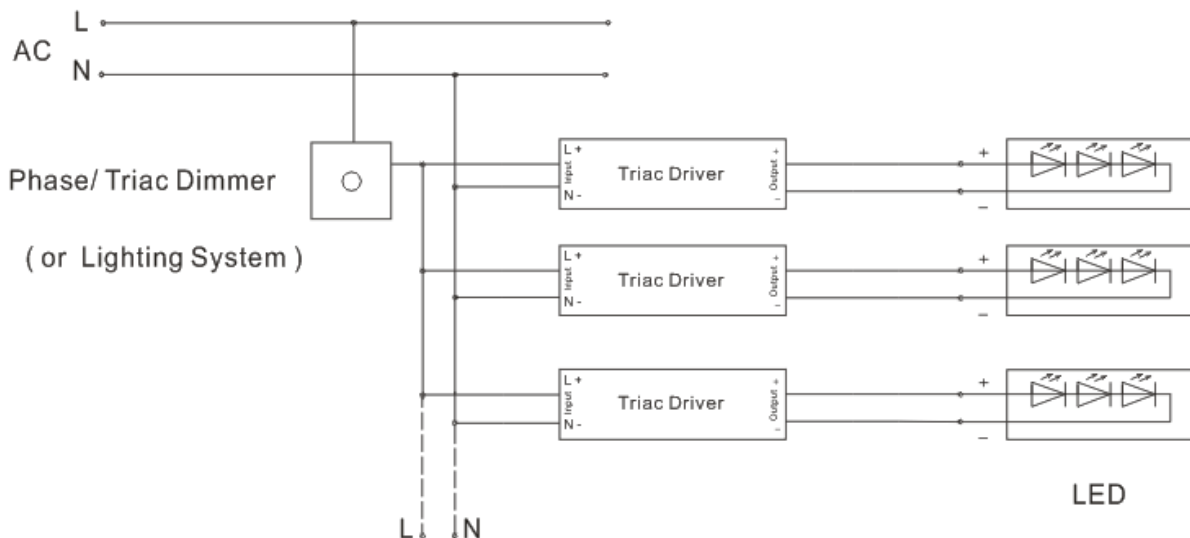
- ※ Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a Triac dimmer/light system.
- ※ Usually matching with leading edge and trial edge Triac Dimmers both;
- ※ please try to use the small power dimmer, have access to a wider dimming range, high-power dimmer is difficult to achieve the output current to zero
- ※ please try to use dimmers with power at least 3 times as the output power of the driver.

## ■ Connecting Diagram

### ■ Single Driver Connecting Diagram

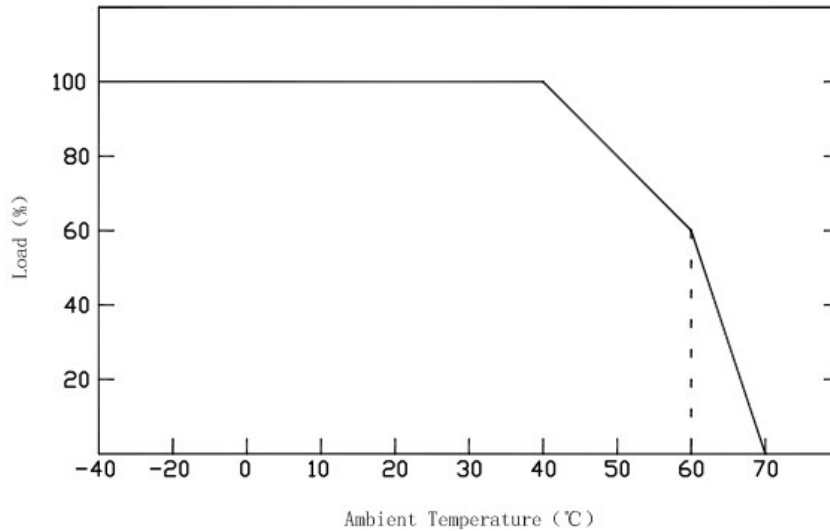


### ■ Multiple Drivers Connecting Diagram



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## ■ 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 to allow for heat dissipation.
- 3) Ensure that wiring is correct before test in order to avoid light and power supply damage;