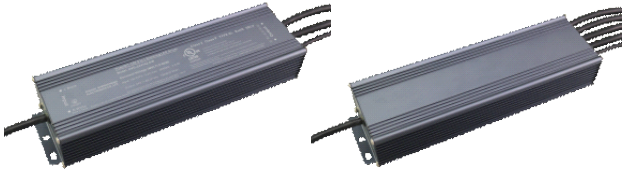


**Phase cut /Triac dimmable driver-PWM output KVF-Cxx-TDW series**  
**Class 2 multi-channels 288W 300W**

**Whole family**  
**KVF-CXXXXX-TDW 12VDC 24VDC**  
**180W 192W 288W 300W**  
**Class 2 multi-channels**



**■Features**

- Output constant voltage, class 2 multi-channels
- UL, cUL listed, Class 2, Class P, Type HL
- Universal AC input: 100-277VAC
- Power Factor: up to 0.99
- High efficiency : up to 91%
- Dimming range: 0-100%
- Load: 10-100%
- Protection:short circuit/over loading/ Over temperature
- PWM output, does not change the color index
- Full protection aluminum housing, for dry, damp and wet location
- Flicker-free, PWM output
- 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  
TYPE HL



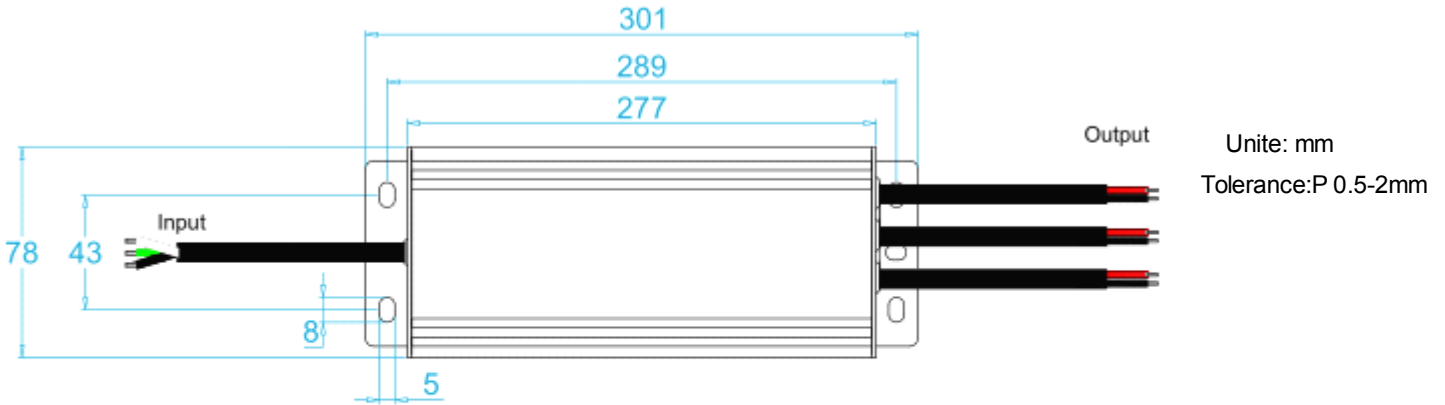
**■Specification**

Model		KVF-C24288-TDW	KVF-C12300-TDW
Certificates		UL cUL FCC	
Output	DC Voltage	24V	12V
	Rated Current	3*4A	5*5A
	Rated Power	288W (3*96W)	300W (5*60W)
	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	<20%	
	Efficiency (Typ.) @ full load	87%@120V 91%@277VAC	85%@120V 90%@277VAC
	AC Current (Max.)	3.4A@100VAC	3.6A@100VAC
	Inrush Current (Typ.)	35A ,50%,960us @120VAC ; 43A,50%,1ms @277VAC	
	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% Hiccup mode ,recovers automatically after fault condition is removed	
	Over temperature	100°C±10°C shut down o/p voltage, automatically recover after cooling.	
Environment	Working TEMP.	-40~+60°C (see below derating curve)	
	Working Humidity	20~90%RH, non-condensing	
	Storage TEMP. Humidity	-40~+80°C, 10~95%RH	
	TEMP .coefficient	±0.03%/°C (0~50°C)	
	Vibration	10~500Hz, 5G 10min./1 cycle,period for 60min. each along X,Y,Z axes	
Safety& EMC	Safety standards	UL8750+UL1310	
	Withstand voltage	I/P-O/P:1.88KVAC	
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH	
	EMC EMISSION	FCC 47 CFR Part 15 ,Subpart B	
others	Net. Weight	1.9Kg	
	Size	303*78*47mm (L*W*H)	

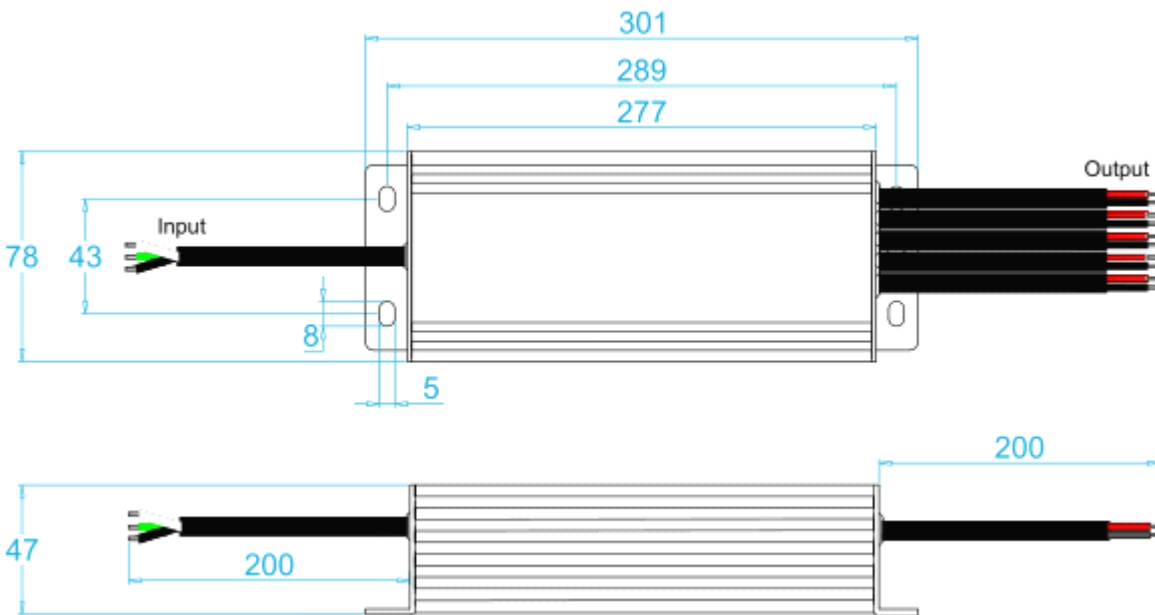
**Phase cut /Triac dimmable driver-PWM output KVF-Cxx-TDW series**  
**Class 2 multi-channels 288W 300W**

	packing	10pcs /CTN
<b>Notes</b>	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.	

■ **Mechanical Specification**



KVF-C24288-TDW



KVF-C12300-TDW

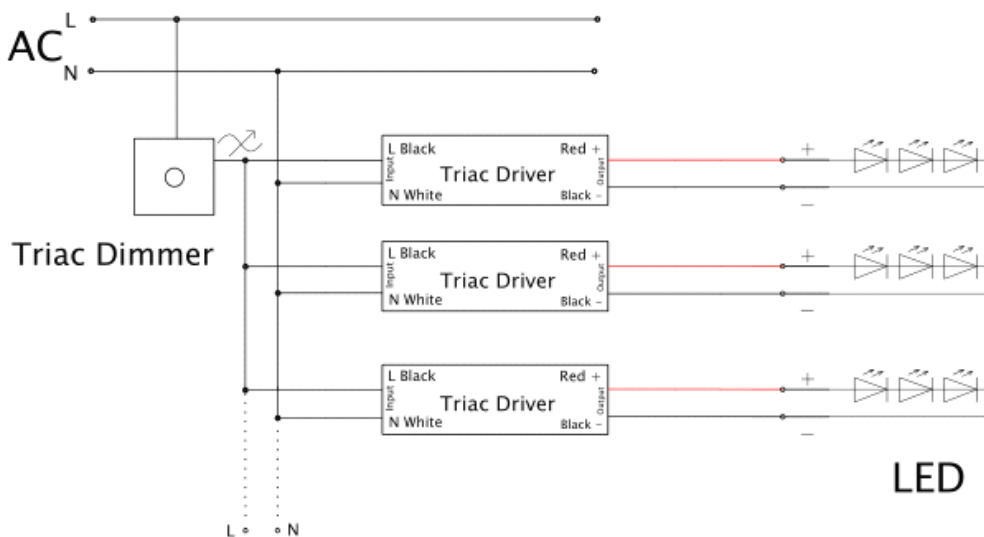
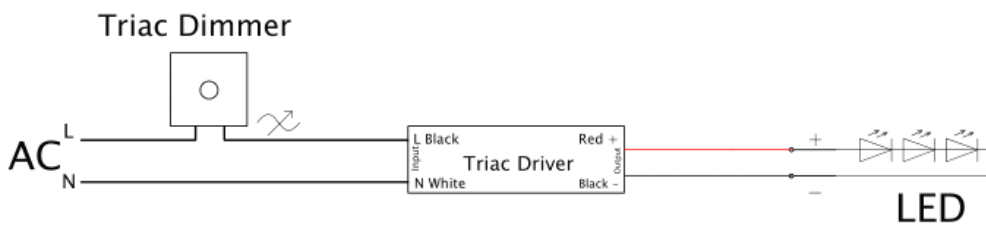
**Phase cut /Triac dimmable driver-PWM output KVF-Cxx-TDW series**  
**Class 2 multi-channels 288W 300W**

- ※ Input wire 18AWG Black and White to be connected to AC L and N ,Green wire go ground,
- ※ Output cable 2\*16AWG,Red" (+) to LED Positive side (+) , "Black"(-) to LED Negative side (-).
- Three groups output cables. of KV-C24288-TDW and five groups of KV-C12300-TDW
- ※ Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.
- ※ Note: Any other requests we can customized.

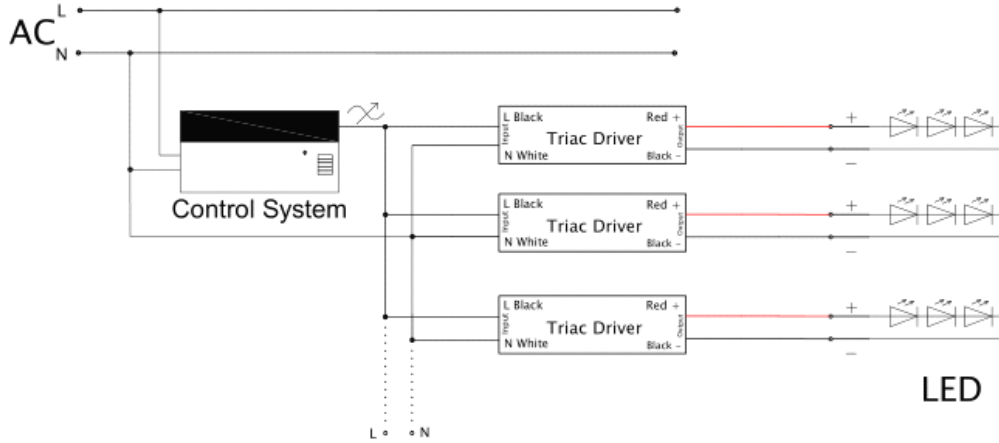
**■ Dimming Operation**

- ※ 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.

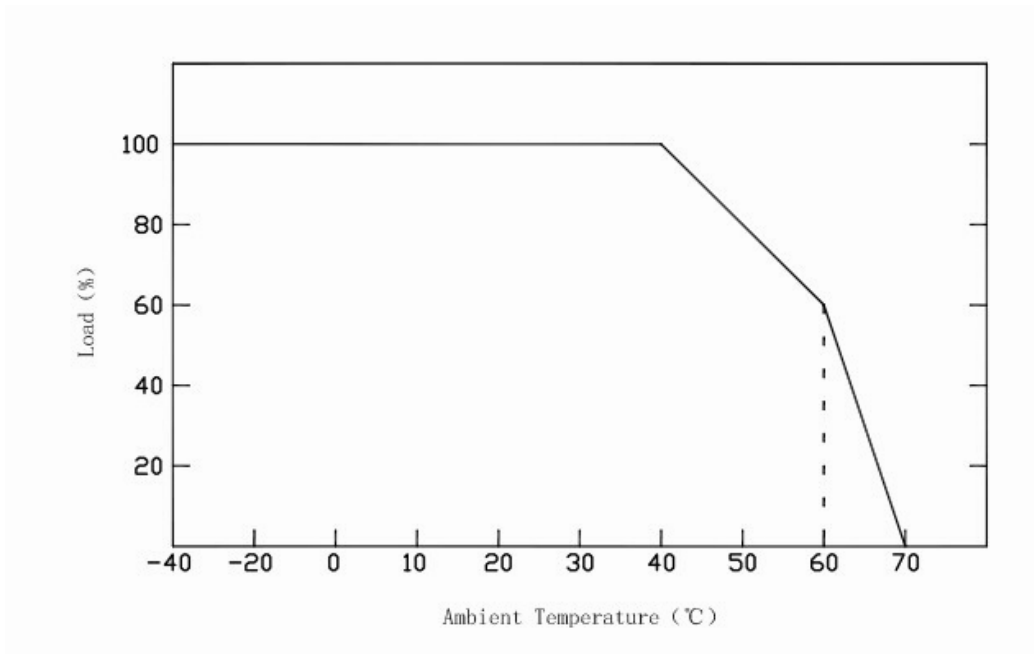
**■ Connecting Diagram**



**Phase cut /Triac dimmable driver-PWM output KVF-Cxx-TDW series**  
**Class 2 multi-channels 288W 300W**



**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 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 Zuhai Shengchang.

Please visit our website or contact us for more information! [www.scpower.net.cn](http://www.scpower.net.cn)