Phase cut /Triac Dimmable LED driver Linear version - constant voltage 60W (IP20 with terminal)

Whole Family
KVF-XXXXX-TDHS 12V24VDC
30W 36W 60W 100W
Plastic Linear

■ Features:

- ·Output constant voltage
- ·Range: 200-240VAC
- ·Built-in active PFC function Power Factor: up to 0.96
- ·Efficiency up to 85%
- ·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, IP20 for indoor installation
- ·Flicker-free
- ·Compatible with leading edge and trailing edge TRIAC dimmers
- ·Cooling by free air convection
- ·Suitable for LED lighting and moving sign applications

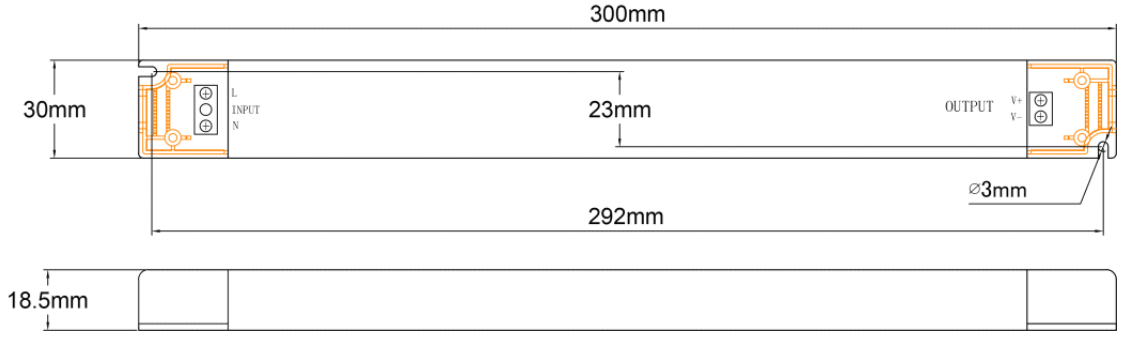
■ Specification

Model		KVF-12060-TDHS	KVF-24060-TDHS
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Rated current	5A	2.5A
	Rated power	60W	
	Load Regulation	± 2%	
Input	Voltage Range	200-240VAC	
	Frequency Range	47 - 63Hz	
	Power Factor(Typ.)@ full load	PF≥0.96/230VAC	
	THD(Typ.) @ full load	<20%	
	Efficiency(Typ.)@ full load	84%	85%
	AC Current(Max.)	0.37A/200VAC	0.37A/200VAC
	Inrush Current (Typ.)	50A,50%,136us@230VAC	
	Leakage current	<0.5mA	
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition is removed	
	Over Load	≤120% constant current limiting, auto-recovery	
	Over temperature	100℃±10℃	
	Protection Class	II	
Environment	Working TEMP.	-40~+60℃ (see below derating curve)	
	Working Humidity	20 - 95%RH,non-condensing	
	Storage TEM.,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	EN61347-1 EN61347-2-13 EN62493	
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC	
	Isolation resistance	I/P-O/P I/P-FG O/P-FG: 100MΩ/500VDC/25℃/70%RH	

Phase cut /Triac Dimmable LED driver Linear version - constant voltage 60W (IP20 with terminal)

	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3
	EMC Immunity	EN61000-4-2,3,4,5,6,11 EN61547
Others	Net Weight	0.3Kg
	Dimension	300*30*18.5mm(L*W*H)
	packing	50pcs /CTN SIZE: 330X330X130mm
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25℃of ambient temperature. 2. Tolerance: includes set up tolerance, line regulation and load regulation . 3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualify EMC Directive on the complete installation again.	

■ Mechanical Specification



※ Input terminals: (L)and (N) to connect to L and N of Mains AC

※Output terminals: "Red" (+) to LED Positive side (+) , "Black"(-) to LED Negative side (-).

※Suggested wire diameter : Input 0.75--2.5m ㎡;Output 0.5-2.5m ㎡

※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

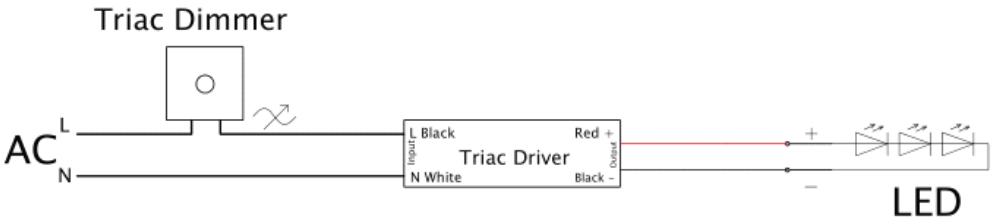
※The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase/triac dimmer.

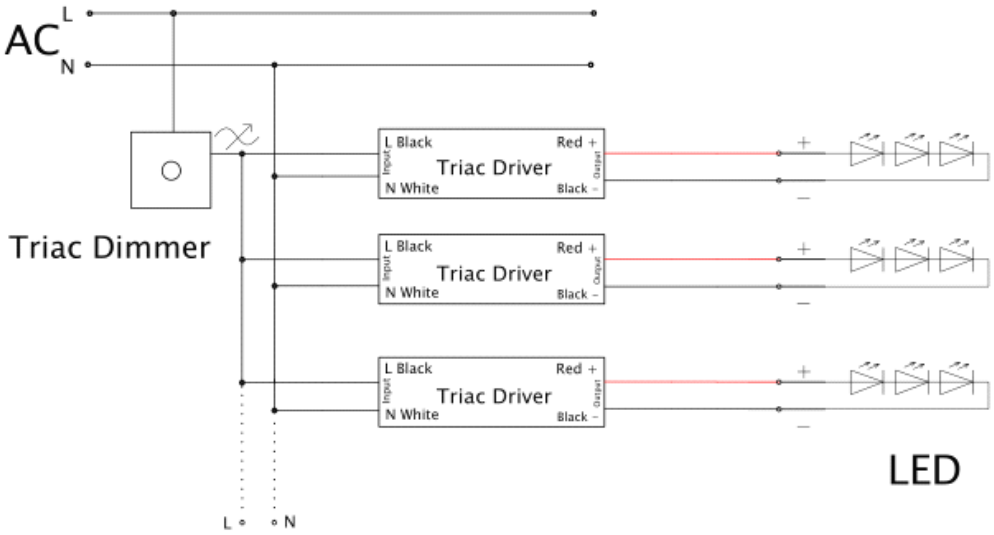
※Usually matching with leading edge and trial edge Triac Dimmers both;

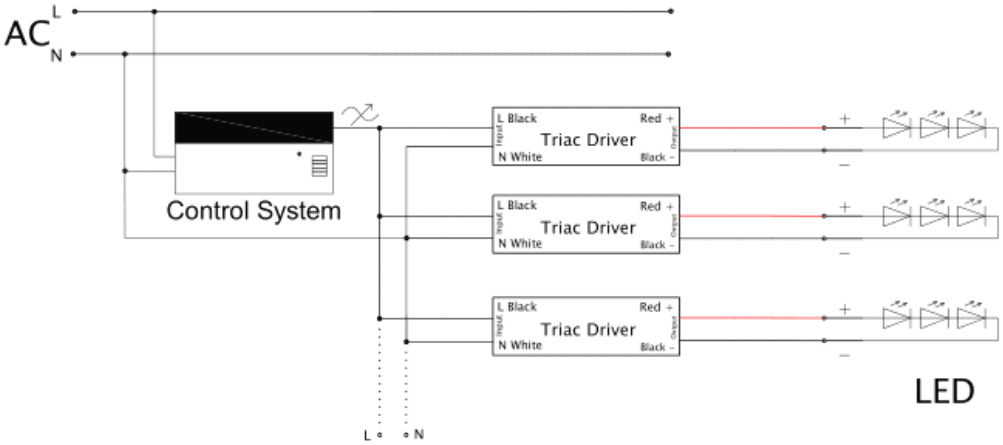
※Please try to use dimmers with power at least 1.5 times as the output power of the driver.

Phase cut /Triac Dimmable LED driver Linear version - constant voltage 60W (IP20 with terminal)

■ Connecting Diagram

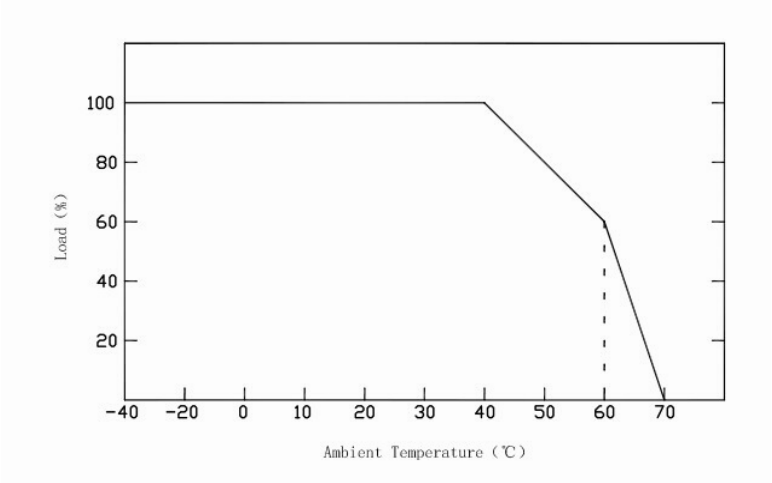






Phase cut /Triac Dimmable LED driver Linear version - constant voltage 60W (IP20 with terminal)

■ 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 Zhuhai Shengchang.

Please visit our website or contact us for more information! www.scpower.net.cn