Triac/0-10V/1-10V/Potentiometer/10V PWM 5 in 1 Dimmable LED driver 60W

Whole Family

KVG-XXXXX-DW 12V/ 24VDC
30W 60W 80W 96W 100W
120W 150W 200W 300W

c UL us LISTED E495946 FC Class 2 Class P

■ Features:

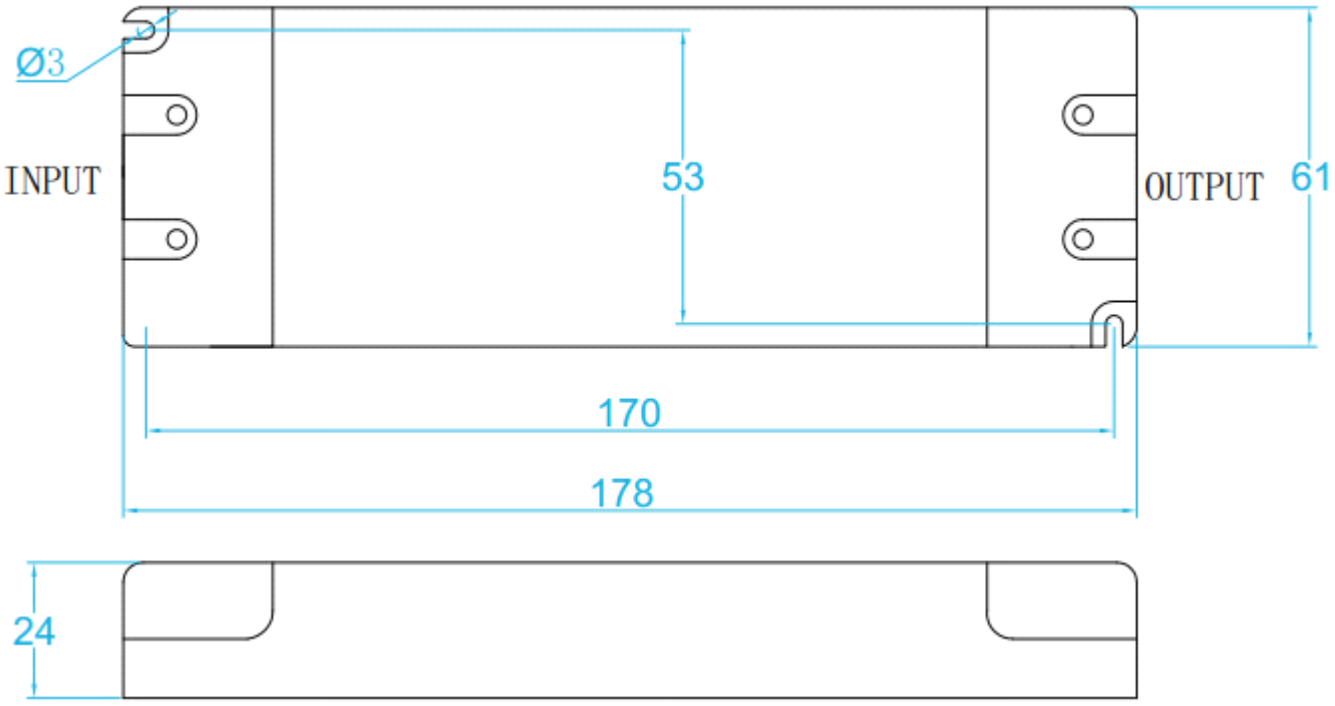
·Output constant Voltage
·Range: 100-277VAC
·Built-in active PFC function
·Efficiency up to 85%
·Protections: short circuit/over load/ over temperature
·Cooling by free air convection
·Full protection plastic housing, for dry and damp locations
·Dimming function:
·Phase dimming: work with forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV,TRIAC dimmers
·0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
· Dimming range: 0-100%
· Suitable for LED lighting and moving sign applications

■ Specification

Model		KVG-12060-DW	KVG-24060-DW	KVG-48060-DW
Certificates		FCC UL cUL Class 2		
Output	DC Voltage	12V	24V	48V
	Voltage Tolerance	±0.5V		
	Voltage Regulation	±0.5%		
	Rated current	5A	2.5A	1.25A
	Rated power	60W		
	Load Regulation	±1 %		
Input	Voltage Range	100-277VAC		
	Frequency Range	47 - 63Hz		
	Power Factor(Typ.)@ full load	0.98@120VAC 0.95@277VAC	0.98@120VAC 0.95@277VAC	
	THD(Typ.) @ full load	<20%@120VAC &277VAC		
	Efficiency(Typ.)@ full load	83%@120VAC 85%@277VAC	83%@120VAC 84%@277VAC	
	AC Current(Max.)	0.9A		
	Inrush Current (Typ.)	14A, 50%, 780us @120VAC; 15A, 50% , 660us @277VAC		
	Leakage current	<0.5mA		
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed		
	Over Load	≤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 - 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	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 CFR Part 15 ,Subpart B		

Others	Net Weight	0.35Kg
	Dimension	178*61*24mm(L*W*H)
	packing	290*215*140mm 20pcs /CTN
Notes	1. All parameters NOT specially mentioned are measured at 120VAC 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 with terminals Live(L) and Neutral(N) wires to be connected AC;
※Output LED SEC output Positive (LED+) , output negative(LED-). Connected to LED light.
※Output terminals DIM (+) to 0/1-10V dimmer signal(+),DIM (-) white connect to 0/1-10V dimmer signal (-)
※Please DO NOT connect “DIM-“ to “LED-“, “DIM+” to “ LED+” ,or other incorrect connection.
※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 and Connecting Diagram

※Using two ways of dimming at the same time, you must be assured that LED lighting is up to the max. Brightness then you could operate with the other dimming;

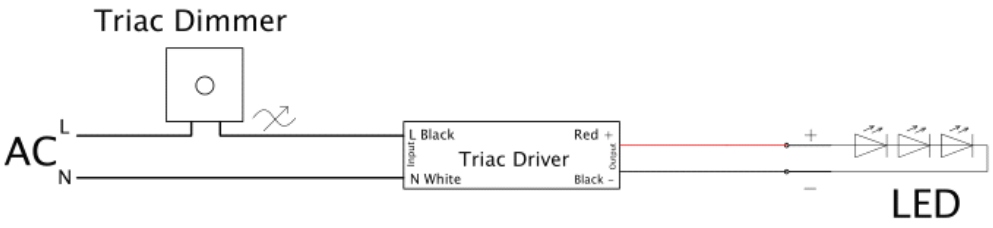
※Using one dimming ---TRIAC/Phase cut dimming

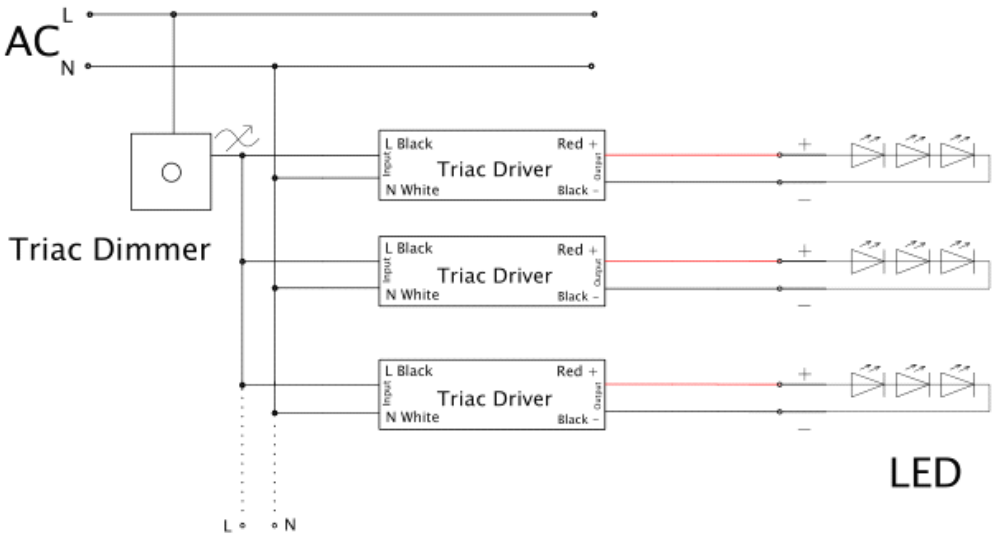
1.The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer of lighting system.

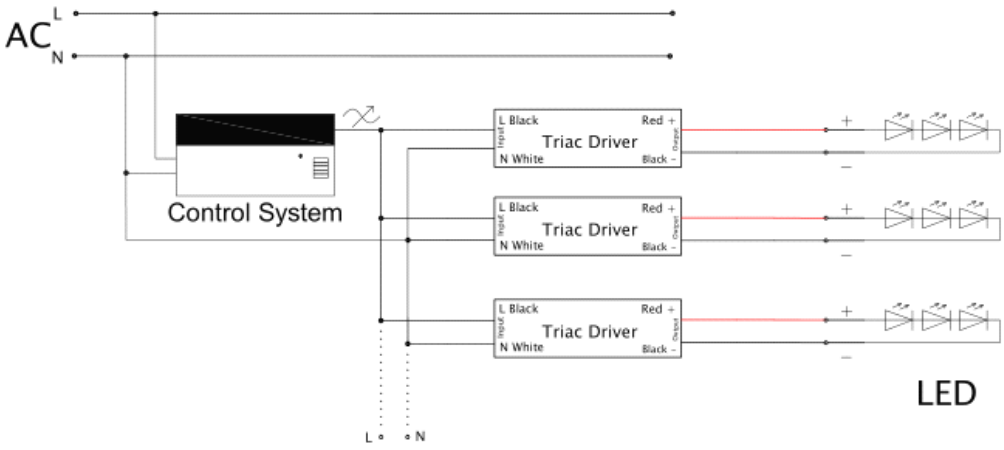
2.Working with forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV,TRIAC dimmers

3.Min loading is about 10%

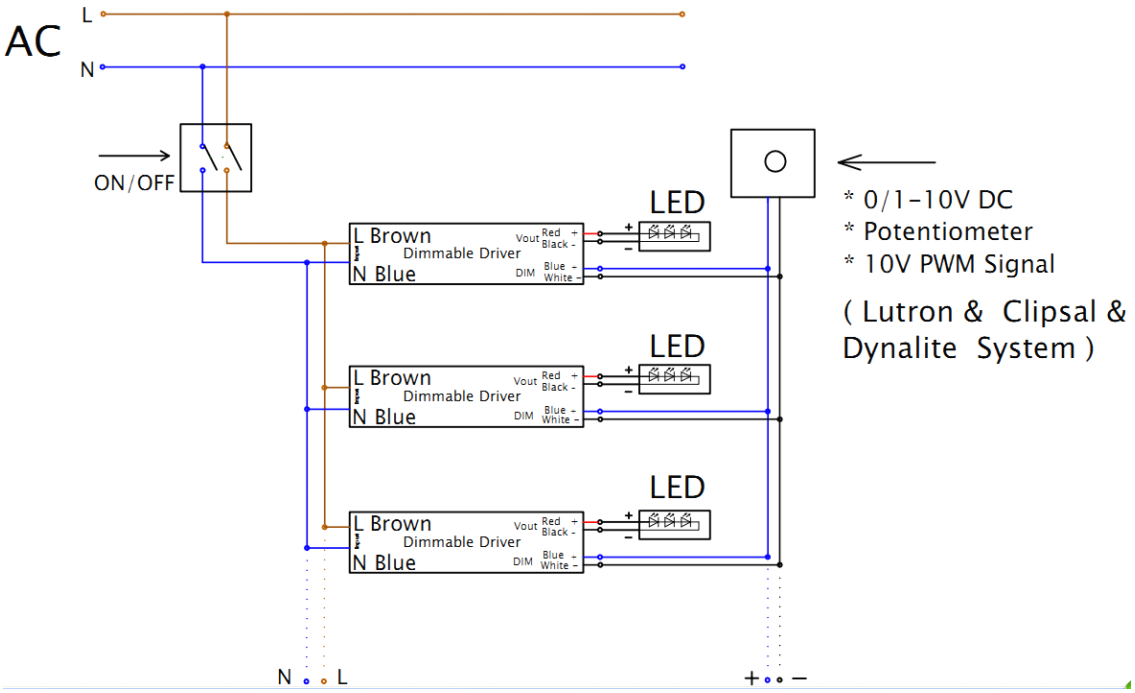
4.Please try to use dimmers with power at least 1.5 times as the output power of the driver.

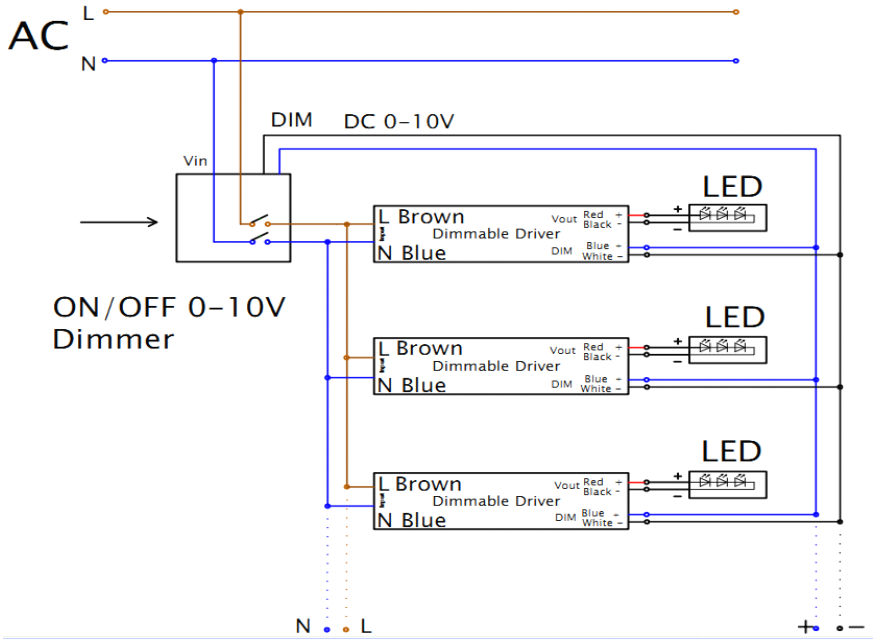




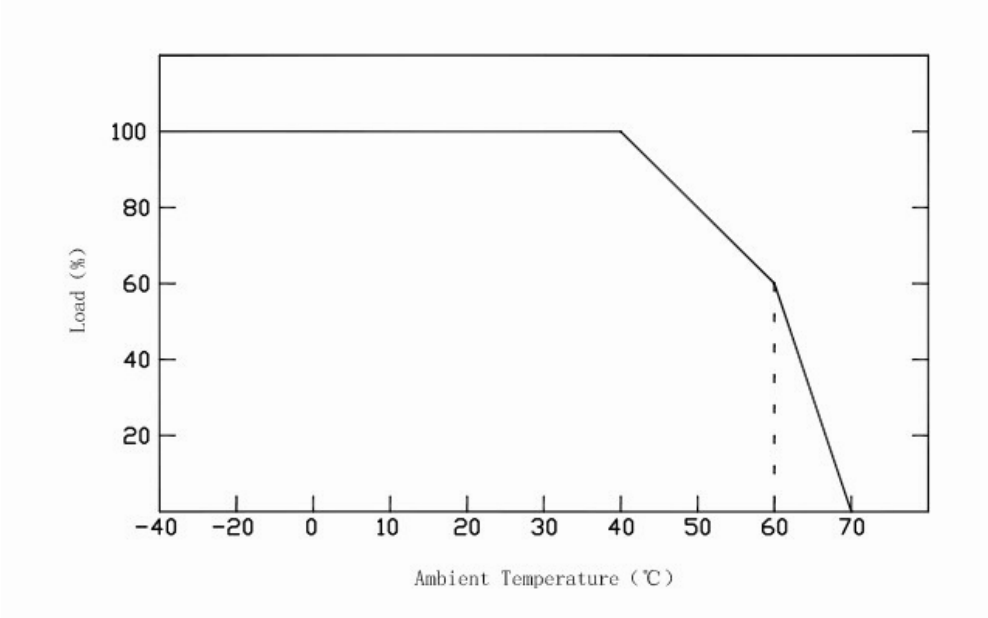


※Using one dimming ---0-10/1-10V dimming





■ 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