

Whole Family

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



■ 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

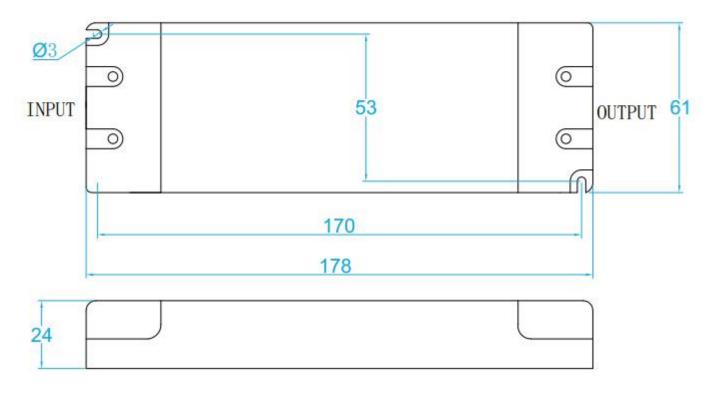
Specification

■ Specification Model		KVG-12060-DW	KVG-24060-DW
Certificates		FCC UL cUL Class 2	
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Rated current	5A	2.5A
	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°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 - 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



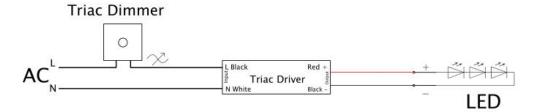
- ※Input with terminals Live(L) and Neutral(N) wires to be connected AC;
- **Output LED SEC output Positive (LED+), output negative(LED-). Connected to LED light.
- **Output terminals DIM (+) to 0/1-10V dimmer signal(+),DIM (-) white connect to 0/1-10V dimmer signal (-)
- **Please DO NOT connect "DIM-" 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 customize.

■ Dimming Operation and Connecting Diagram

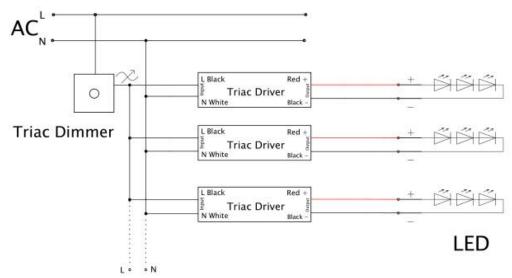
****Using two ways of dimming at the same time,** you must be assured that LED lighting is up to the max. Brightness then you could operate with the other dimming;

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

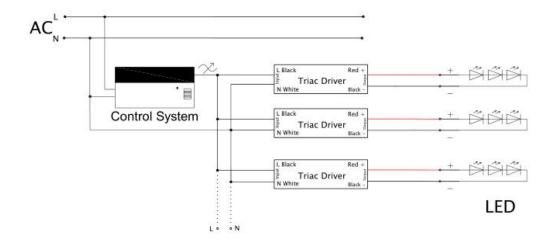
- 1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer of lighting system.
- 2. Working with forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV,TRIAC dimmers
- 3.Min loading is about 10%
- 4.Please try to use dimmers with power at least 1.5 times as the output power of the driver.



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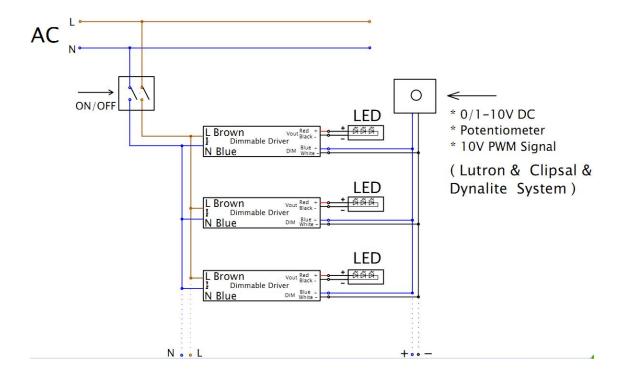


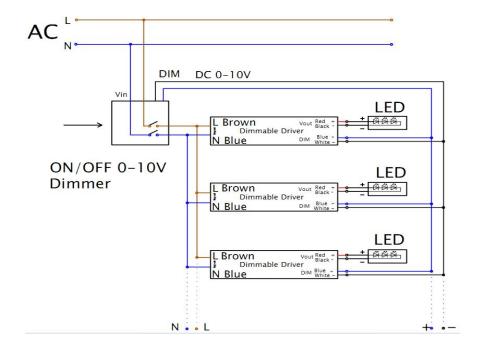
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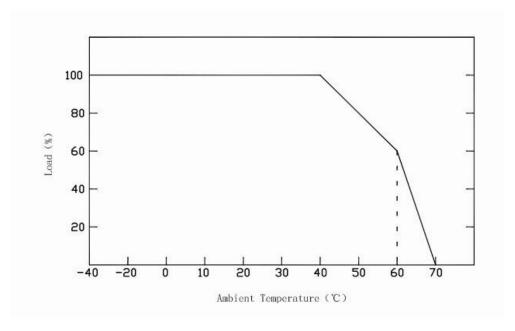


%Using one dimming ---0-10/1-10V dimming





■ 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 illuminfx.

Please visit our website or contact us for more information! www.illuminfx.com