LUMINAIRE Galarneau

Triac/0-10V/1-10V/Potentiometer/10V PWM 5 in 1 Dimmable led driver

KVG-DWJ 30W

Whole Family

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



c UL us LISTED E495946 Class 2 TYPE HL

FC

Product RoHS

■Features

·Output constant voltage
·UL, cUL listed, Class 2 unit, Type HL rated. FCC
·Universal AC input: 100-277VAC
.Power Factor: up to 0.99
·High efficiency : up to 80%
·Load: 10-100%
·Protection:short circuit/over loading/ Over temperature
·PWM output, does not change the color index
·Full protection metal case, for dry, damp, wet location
·Flicker-free
·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

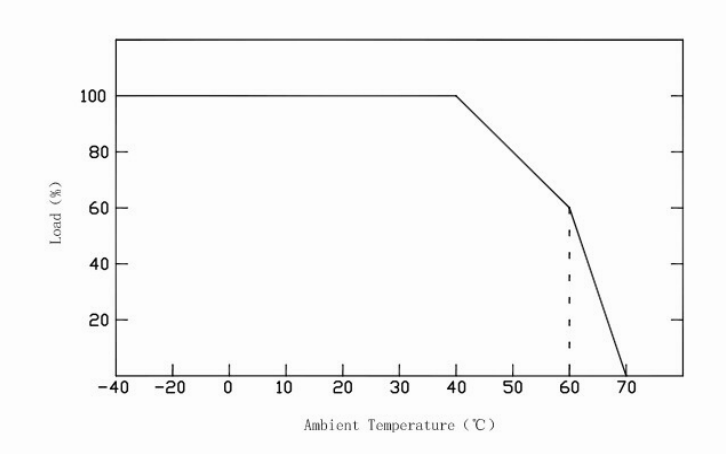
Model		**KVG-12030-DWJ**	**KVG-24030-DWJ**
Certificates		UL, cUL listed, Class 2 unit, Type HL rated, FCC	
Output	DC Voltage	12V	24V
	Rated Current	2.5A	1.25A
	Rated Power	30W	30W
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Load Regulation	±1%	
Input	Voltage Range	100-277VAC	
	Frequency Range	47-63Hz	
	Power Factor Typ. @ full load	0.99@120VAC 0.98@277VAC	0.99@120VAC 0.95@277VAC
	THD Typ. @ full load	<20%	
	Efficiency Typ. @ full load	79% @120Vac 80%@277Vac	79% @120Vac 80%@277Vac
	AC Current Max.	0.5A@100Vac	
	Inrush Current Typ.	7A, 50%, 420us @120Vac 12A, 50%, 480us @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% shut down o/p voltage, re-power on to recover 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 90%RH, non-condensing	
	Storage TEMP. Humidity	-40 +80 10 95%RH	
	TEMP .coefficient	±0.03%/ 0 50	
	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 /70%RH	

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	EMC EMISSION	FCC Part 15 B
others	Net. Weight	0.95Kg
	Size	165*94.5*40mm (L*W*H)
	packing	10PCS/CTN
Notes	1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25 of ambient temperature. 2. To extend the driver's using life ,please reduce the loading at lower input voltage.	

■ Derating Curve

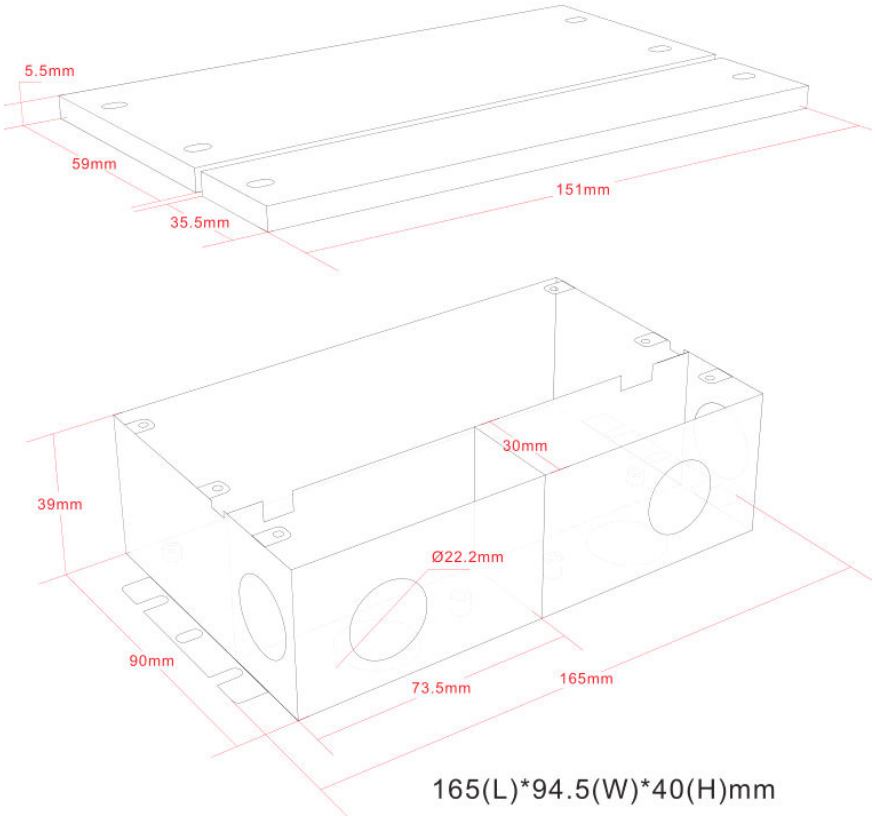


To extend their life, please refer to the Derating Curve and derate according to the temperature.

■ Mechanical Specification

Unite: mm

Tolerance: 0.5-2mm



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Input wire Black and White to be connected to AC L and N ,Green wire go ground,

Output wire Red to LED Positive side (+) , Black to LED Negative side (-).

Dimming cable DIM (+) Purple to 0/1-10V dimmer signal(+),DIM (-) Grey to 0/1-10V dimmer signal (-)

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.

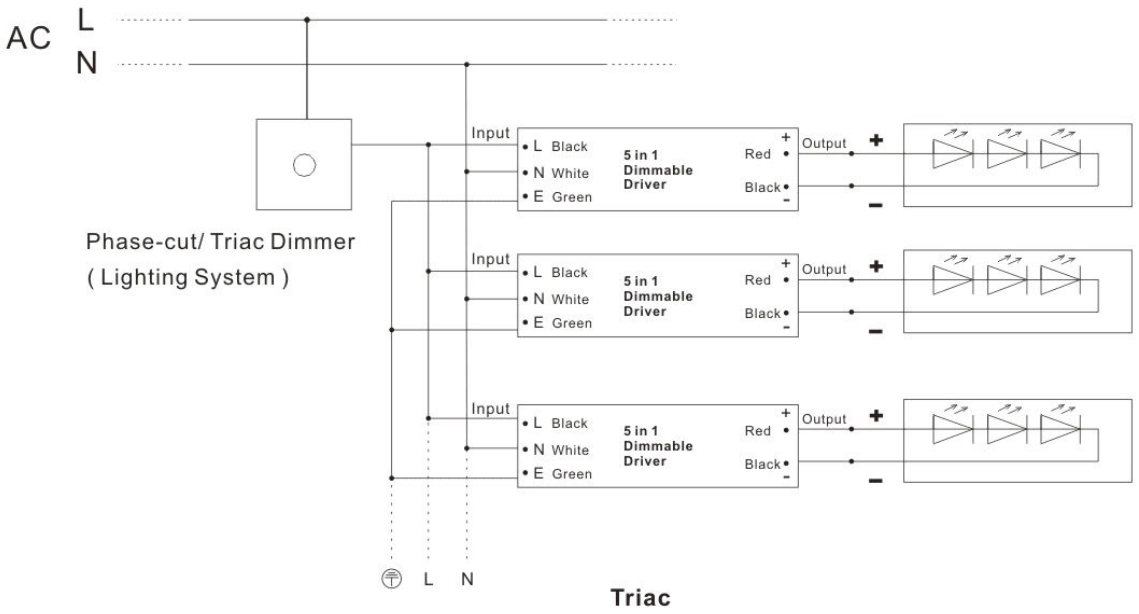
■ Connecting Diagram

Using 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.

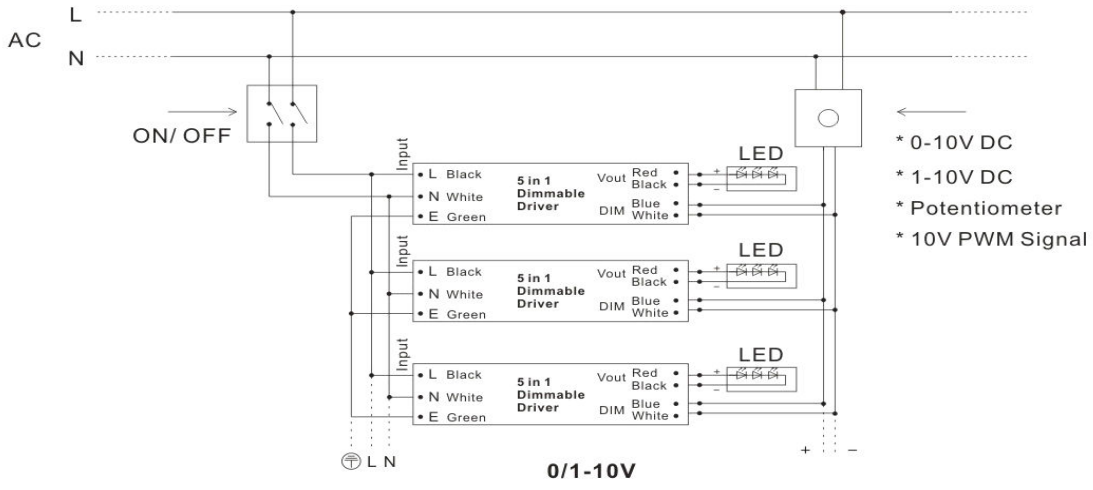
2. Work with forward phase /leading edge ,MLV and reverse phase /trailing edge ,ELV,TRIAC dimmers.

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



Triac

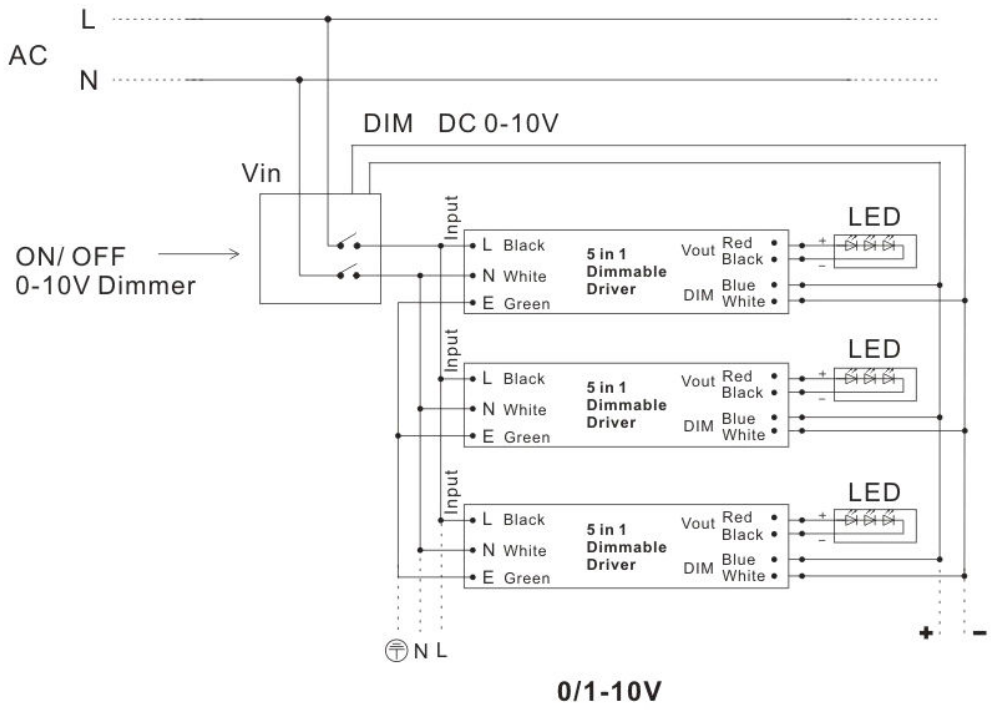
Using 0-10/1-10V dimming



0/1-10V

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0/1-10V

■ 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.