Class 2 muti-channels 288W 300W

Whole family
KVG-CXXXXX-DWJ 12VDC 24VDC
180W 192W 288W 300W
Class 2 muti-channels

c UL us LISTED E495946 Class 2 TYPE HL

■Features

·Output constant Voltage, class 2 muti-channels
·UL, cUL listed, Class 2, Type HL
·Range: 100-277VAC
·Built-in active PFC function
·Efficiency up to 91%
·Protections: short circuit/over load/ over temperature
·Cooling by free air convection
·Full protection metal housing, for dry ,damp and wet 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-C24288-DWJ**	**KVG-C12300-DWJ**
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%	<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 ±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	
	EMC EMISSION	FCC 47 CFR Part 15 ,Subpart B	
others	Net. Weight	2.50Kg	
	Size	301*110*45mm (L*W*H)	
	packing	365*250*245mm/10pcs /CTN G.W.:26.6KG/CTN	

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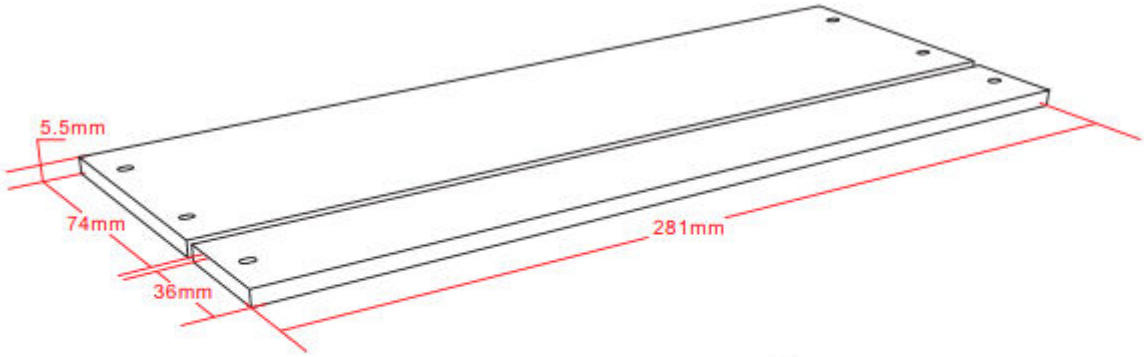
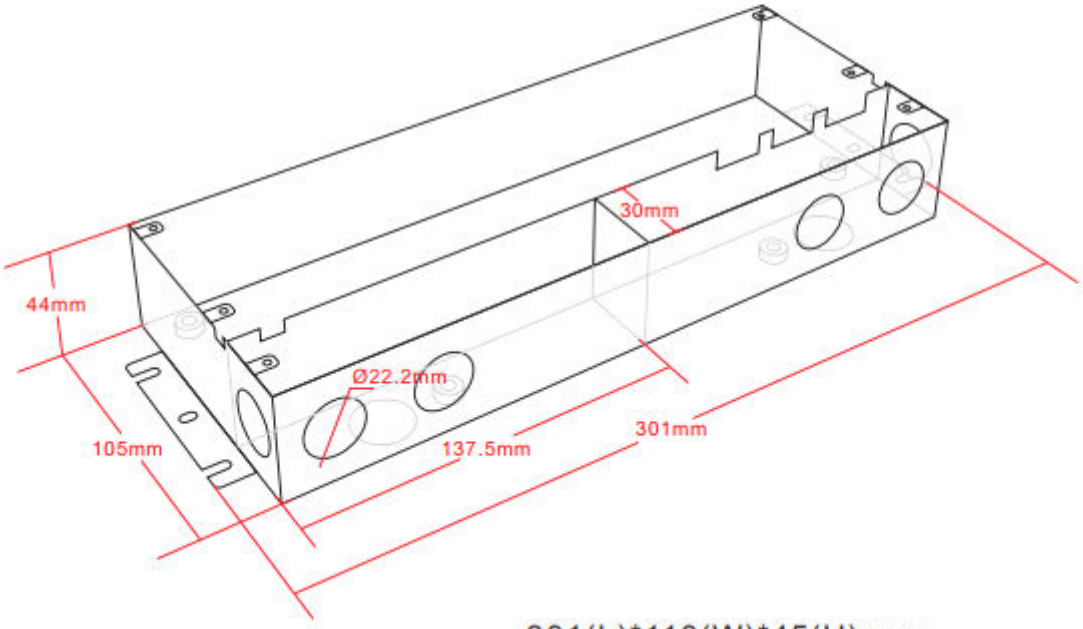
Notes	1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25 of ambient temperature. 2. To extend the driver's using life ,please reduce the loading at lower input voltage.

■ Mechanical Specification





301(L)*110(W)*45(H) mm

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 KVG-C24288-DWJ and five groups of KVG-C-12300-DWJ

Dimming cable 2*18AWG,DIM (+) Purple to 0/1-10V dimmer signal(+),DIM (-) Grey 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.

■ Derating Curve

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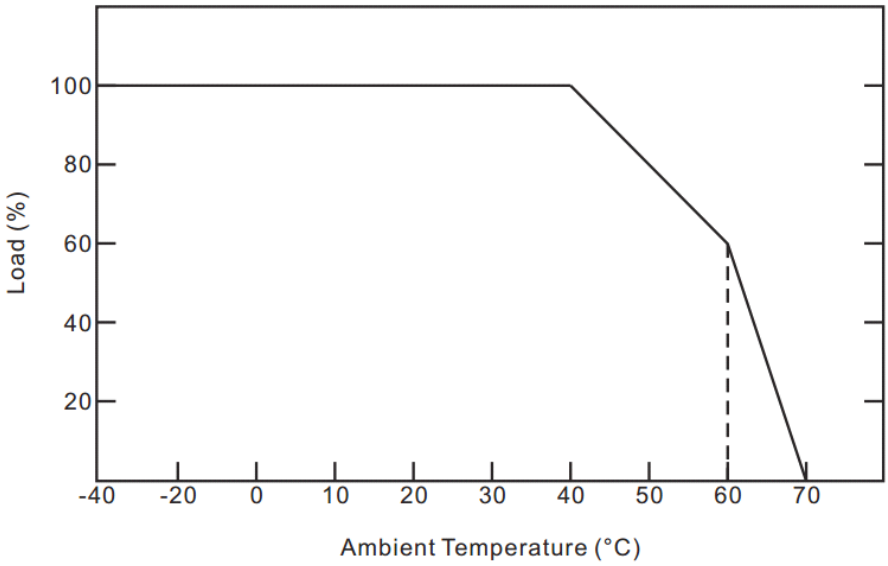
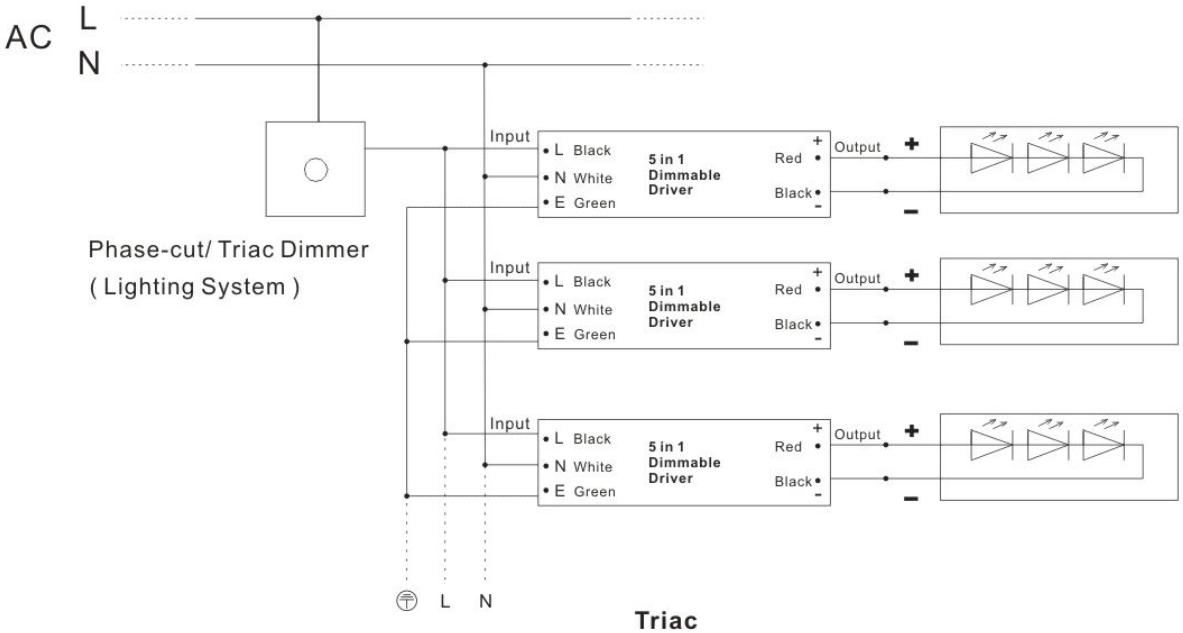


To extend their life, please refer to the Derating Curve and derate according to the temperature.

■ Dimming Operation and Connecting Diagram

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.



0-10/1-10V dimming

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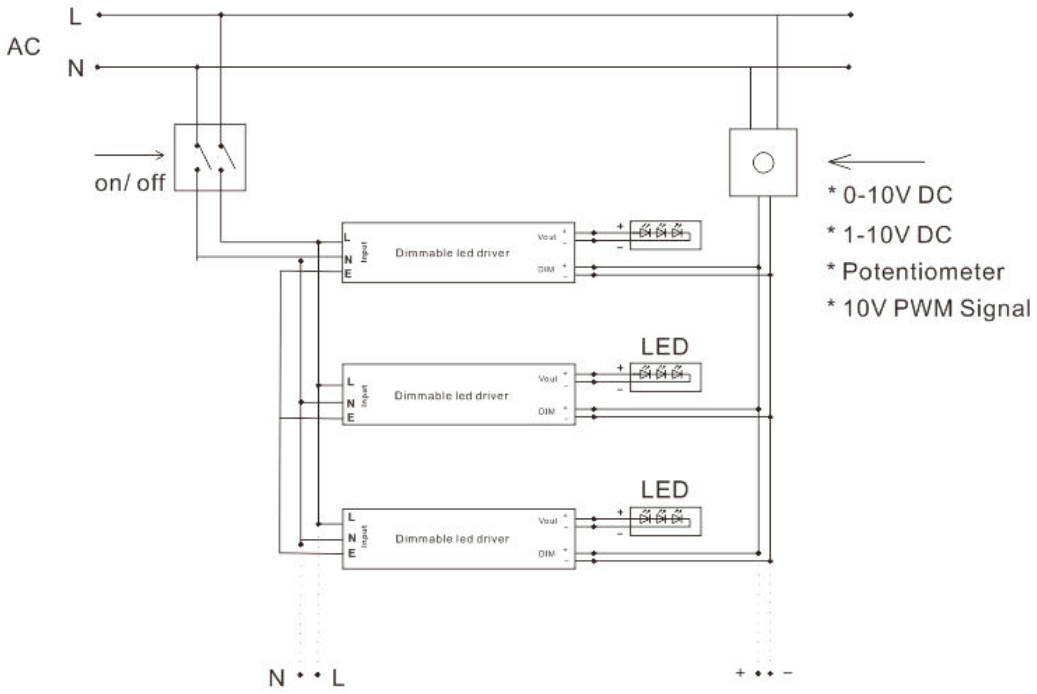

Diagram 1

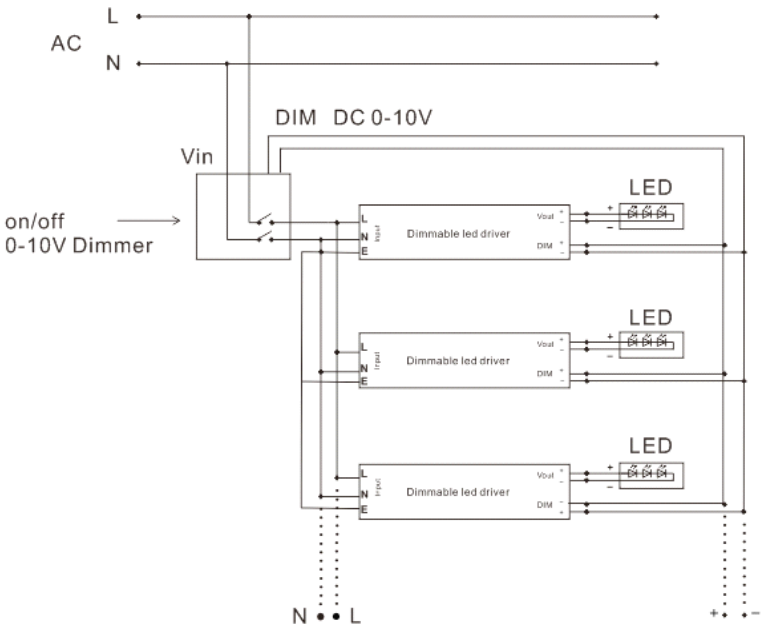

Diagram 2

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.

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