

Triac/0-10V/1-10V/Potentiometer/10VPWM 5 in 1 Dimmable LED driver -Linear version - constant voltage 150W (IP20 with terminal)

Whole Family with Linear version

KVG-xxxxx-DHS 12V 24VDC
30W 36W 60W 100W 150W



■ Features:

- Output constant Voltage
- Range: 200-240VAC
- Built-in active PFC function
- Efficiency up to 92%
- Protections: short circuit/over load/ over temperature
- Cooling by free air convection
- IP20 design for indoor installation
- Dimming function:
Phase dimming: work with leading edge and trailing edge TRIAC dimmers
1-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
- Dimming range: 0-100% and suitable for intelligent LED lighting



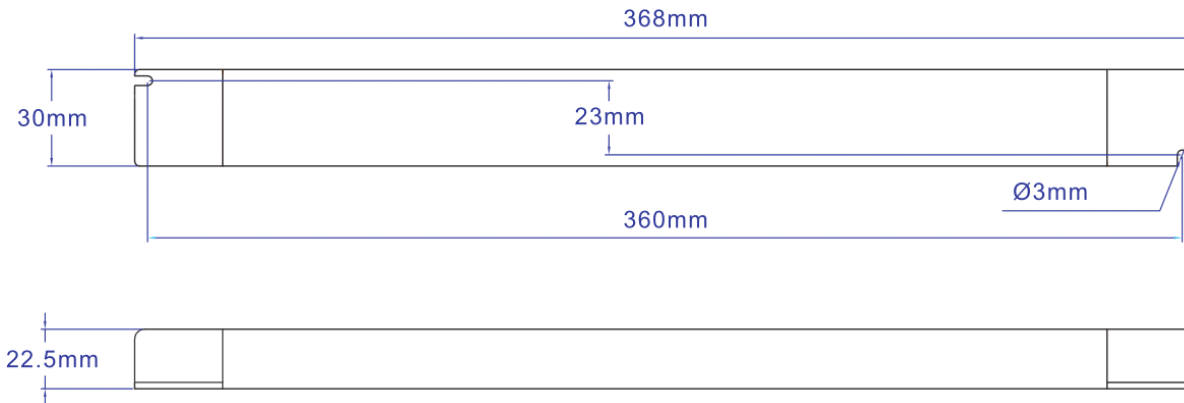
■ Specification

Model		KVG-12150-DHS	KVG-24150-DHS
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Voltage Regulation	± 0.5%	
	Rated current	12.5A	6.25A
	Rated power	150W	
	Load Regulation	± 2%	
Input	Voltage Range	200-240VAC	
	Frequency Range	47 - 63Hz	
	Power Factor(Typ.)@ full load	PF≥0.95/230VAC	
	THD(Typ.) @ full load	< 20%	
	Efficiency(Typ.)@ full load	90%	92%
	AC Current(Max.)	0.95A	0.95A
	Inrush Current (Typ.)	47.5A/312uS@50%Ipeak	
	Leakage current	<0.5mA	
Protection	Short Circuit	Hiccup mode ,recovers automatically after fault condition is removed	
	Over Load	≤120% Hiccup mode,recovers automatically after fault condition is removed	
	Over temperature	100°C±10°C	
	Protection Class	II	
Environment	Working TEMP.	-40~+60°C (see below derating curve)	
	Working Humidity	20 - 90%RH,non-condensing	
	Storage TEM.,Humidity	-40 - +80°C,10 - 95%RH	
	TEMP.coefficient	±0.03%/°C(0 - 50°C)	
	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	
	Withstand voltage	I/P-O/P:3.75KVAC	
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH	

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	EMC Emission	EN55015	EN61000-3-2	EN61000-3-3
	EMC Immunity	EN61000-4-2,3,4,5,6,11		EN61547
Others	Net Weight	0.5Kg		
	Dimension	368*30*22.5mm(L*W*H)		
	packing	50pcs /CTN		
Notes	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25°C of ambient temperature. Tolerance: includes set up tolerance, line regulation and load regulation . 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



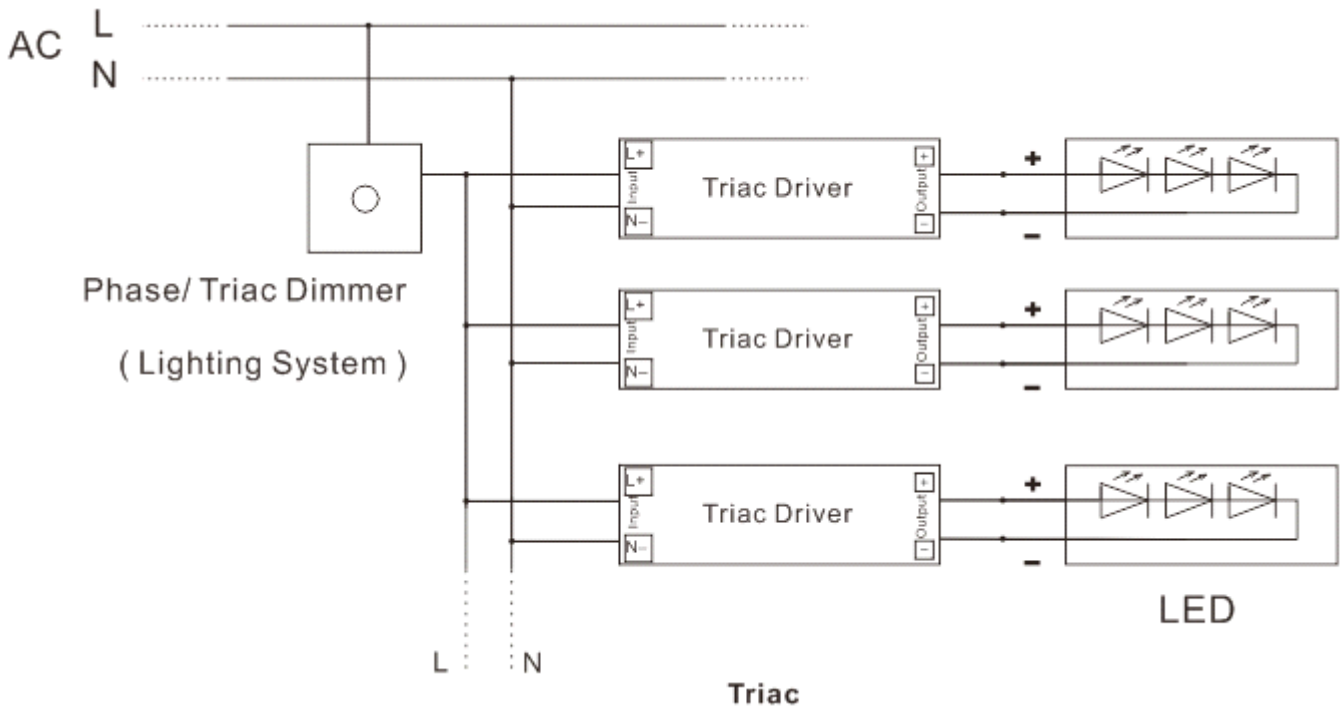
- ※ Input terminals: (L) and (N) to connect to L and N of Mains AC
- ※ Output terminals: LED (+) to LED Positive side (+) , LED (-) to LED Negative side (-).
- ※ Dimming Terminal: DIM (+) to 0/1-10V dimmer signal(+),DIM (-) to 0/1-10V dimmer signal(-)
- ※ Suggested wire diameter : Input 0.75--2m m²;Output 0.5-2m m²;dimming: 0.5-2m m²;
- ※ 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

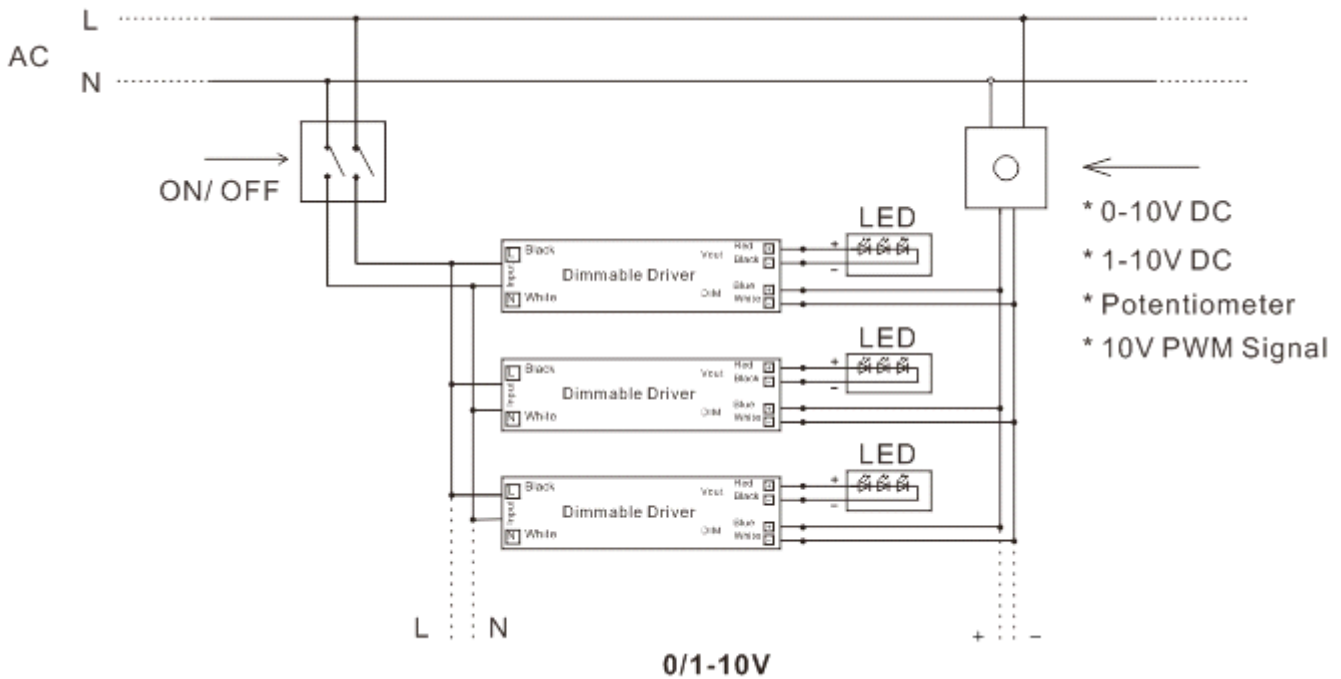
※ TRIAC/Phase cut dimming

- 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.
- Matching with leading edge and trailing edge Triac dimmer or lighting system.
- Please try to use dimmers with power at least 1.5 times as the output power of the driver.

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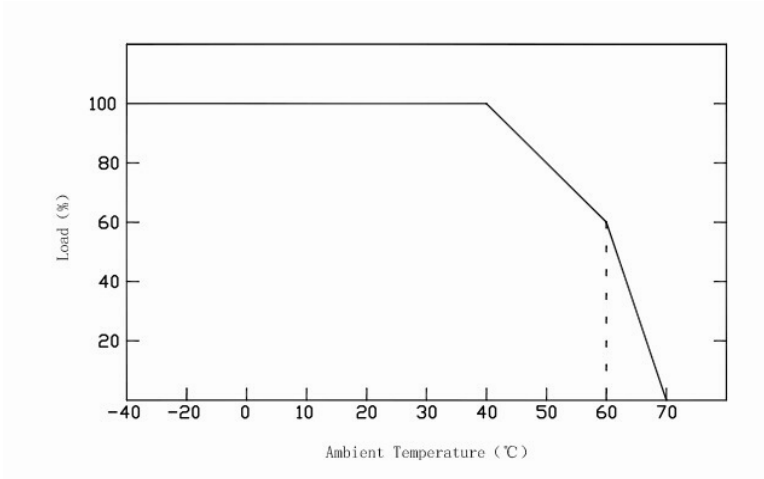


※ 0-10V/1-10V/Potentiometer/10V PWM



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■ 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.

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