Triac/0-10V/1-10V/Potentiometer/10V PWM 5 in 1 Dimmable LED driver 40W

KIG-DH Series 40W

Whole Family: KIG-XXX-DH - [10W 20W 40W 60W]

Features

Output:	Constant Current
Range:	200-240VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 80%
Protections:	Short circuit/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP20
Dimming function:	Phase dimming: work with leading edge, MLV and trailing edge, ELV, TRIAC dimmers
	0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
Dimming range:	1-100%
Application:	Suitable for the application of indoor LED lighting
Warranty:	5 years warranty

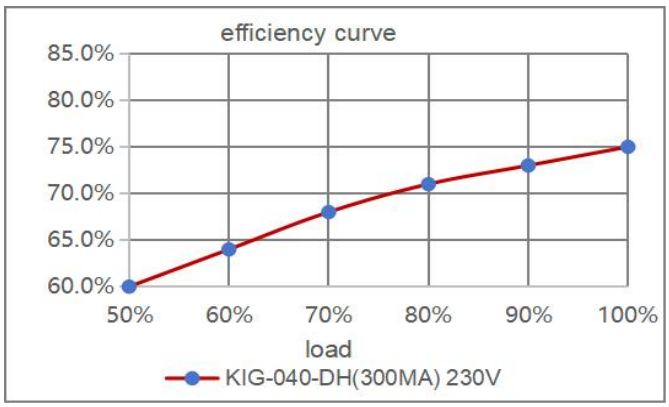
Triac/0-10V/1-10V/Potentiometer/10V PWM 5 in 1 Dimmable LED driver 40W

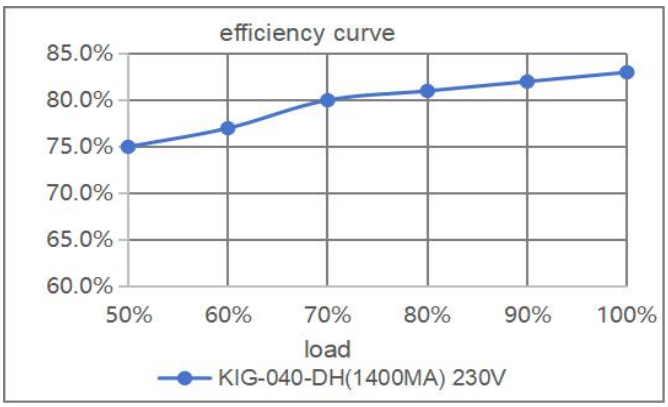
Specification

T ON ⊥ OFF

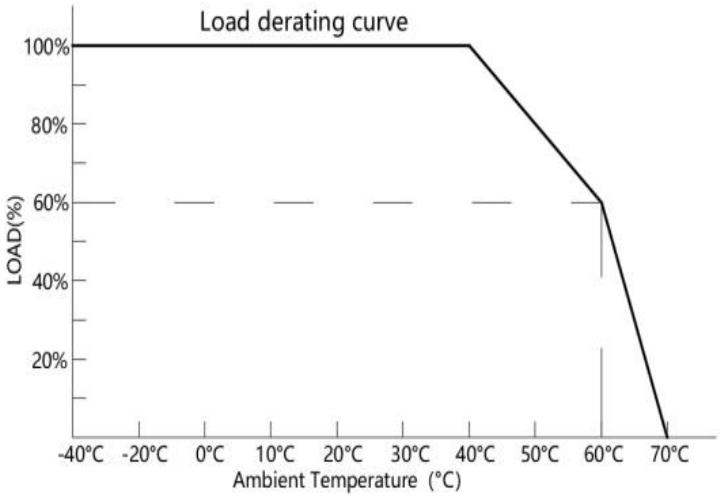
Model		KIG-040-DH															
Output	Rated current (A)	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4
	DIP Code	⊥⊥⊥⊥		⊥T⊥⊥		⊥⊥T⊥		⊥TT⊥		⊥⊥⊥T		⊥T⊥T		⊥⊥TT		⊥TTT	
	DIP Code		T⊥⊥⊥		TT⊥⊥		T⊥T⊥		TTT⊥		T⊥⊥T		TT⊥T		T⊥TT		TTTT
	Current Tolerance	±5%															
	No-Load Voltage	75V max.															
	DC Voltage (V)	3-65V							3-62	3-57	3-50	3-45	3-40	3-37	3-34	3-31	3-29
	Rated power (W)	19.5	22.8	26	29.3	32.5	35.8	39	40								
Input	Rated Voltage	200-240VAC															
	Rated Frequency	47-63HZ															
	Power Factor	≥0.93@230VAC 50Hz															
	THD@ full load	≤20%															
	Efficiency@ full load	≥80%@230VAC															
	AC Current (Max.)	0.29A@230VAC															
	Inrush Current (Typ.)	15.6A,10.3us@50%Ipeak 230V															
	Leakage current	<0.50mA															
Protection	Short Circuit	Constant current mode, recovers automatically after fault condition is removed															
	Over temperature	Ambient temp. over 50℃±5℃, output current will be reduced to 50%; Ambient temp. over 60℃±5℃, output will be of; Ambient temp. reduce to 45℃±5℃, recovers automatically .															
Environ-ment	Working TEMP.	-40-+60℃															
	Working Humidity	20-90%RH, non-condensing															
	Storage TEMP. 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	EN61347-1 EN61347-2-13 (EU)															
	Withstand voltage	I/P-O/P:3.75KVAC (EU)															
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25℃ / 70%RH															
	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3 (EU)															
Others	Net Weight	0.225Kg															
	Dimension	171.5*54*20mm(L*W*H)															
	packing	250*190*135mm 20PCS/CTN 5KG/CTN															
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃of ambient temperature. 2. Tolerance: includes set us tolerance, line regulation and load regulation.																

Efficiency Curve (efficiency vs output load)



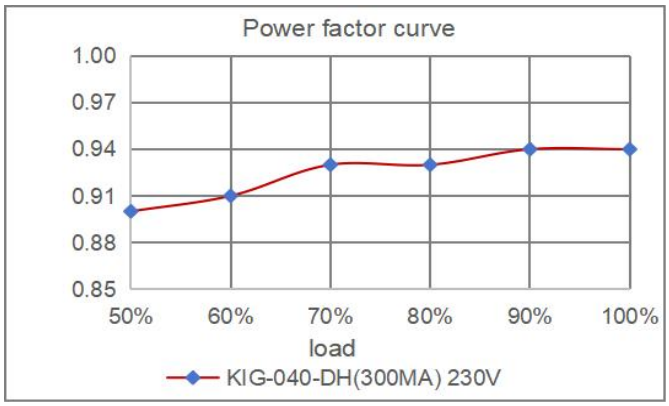


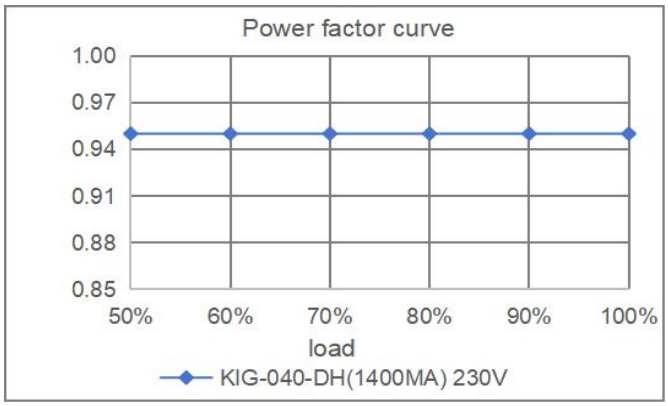
Derating Curve (output load vs TEMP.)



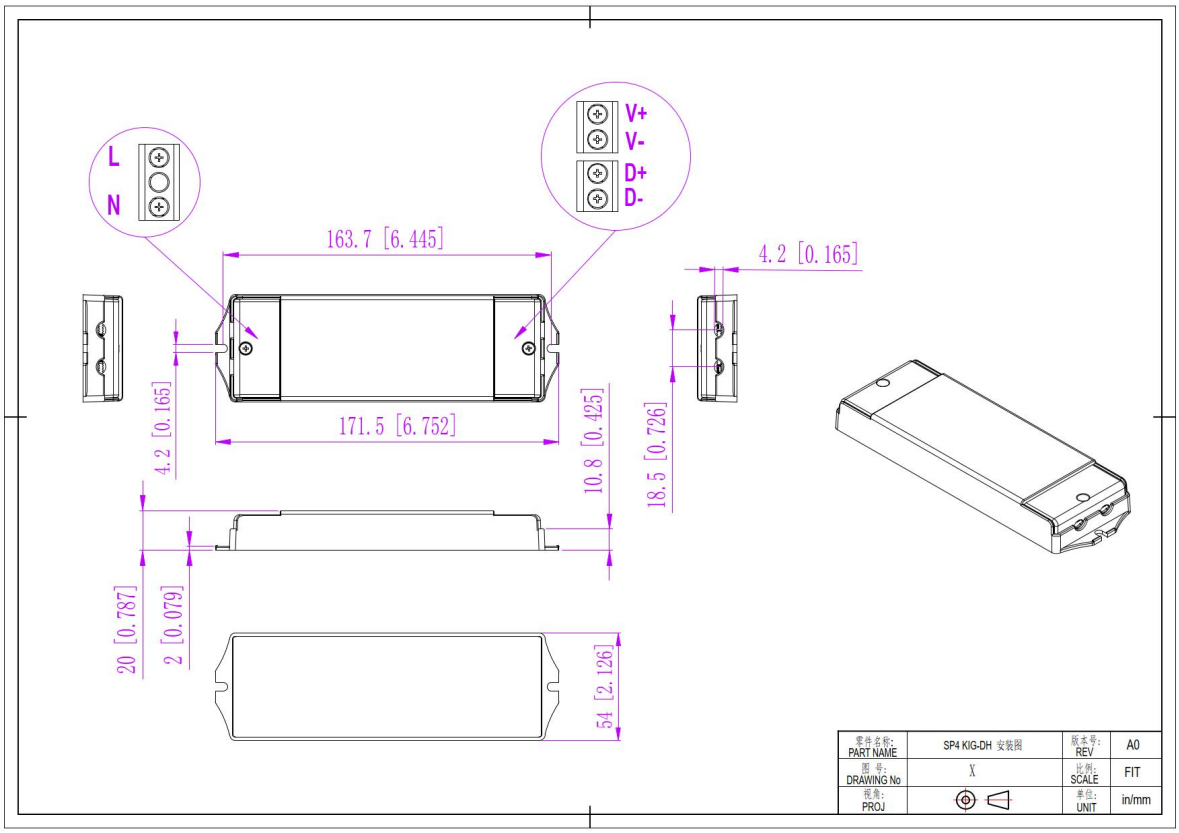
1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise. Therefore, we recommend the power supply to reserve a certain amount of load to avoid overloading .

Power Factor Curve





Mechanical Specification



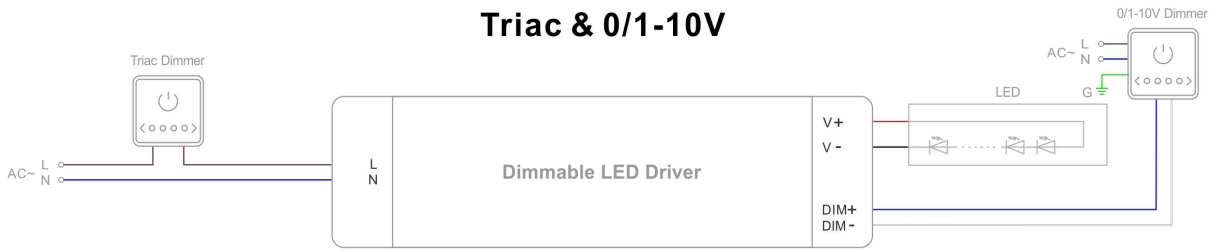
1. Input with DG126 terminals 3P: Live Wire AC (L), Neutral Wire AC(N).
2. Output LED SEC with DG126 terminals 2P: output Positive (LED+), output negative (LED-). Connected to LED Lamps.
3. Dimming LED SEC with DG126 terminals 2P: dimming (+) connected to Positive (LED+), dimming(-) connected to negative (LED-).
4. Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

Warm tips:

1. Suggested wire diameter: Input 0.75-2mm^2; Output:0.5-2mm^2.
2. Any other requests for, we can customized.

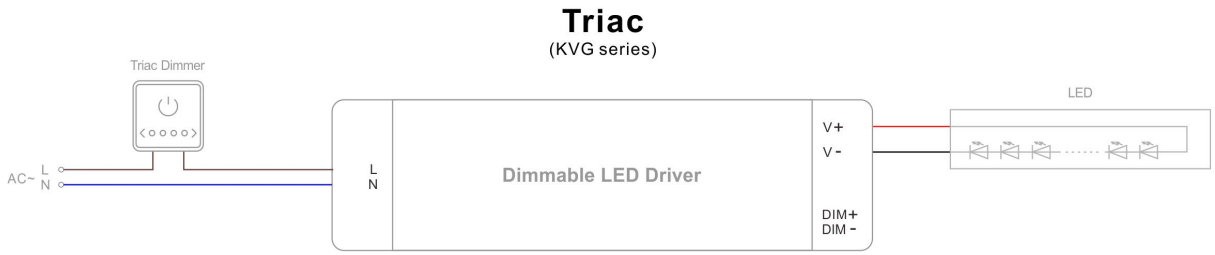
Dimming Operation and Connecting Diagram

- **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;

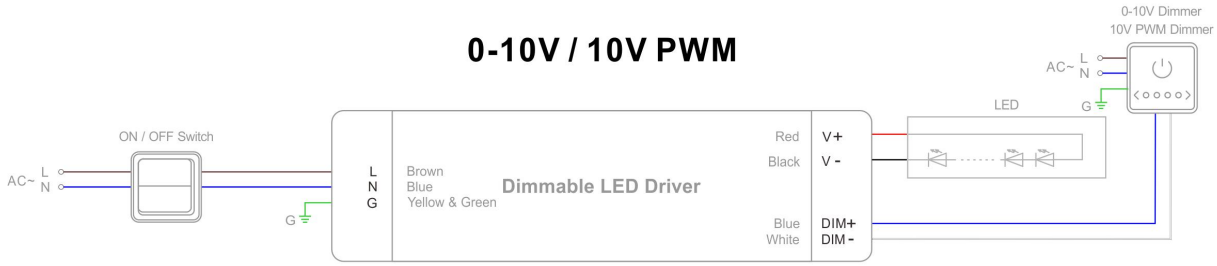


Using one dimming ---TRIAC/Phase cut dimming

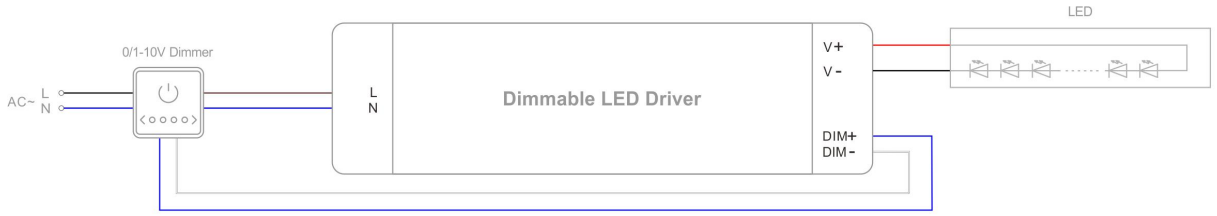
1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
2. Working with leading edge, MLV and trailing edge, ELV, TRIAC dimmers or light system.
3. Min. loading is about 10%
4. Please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



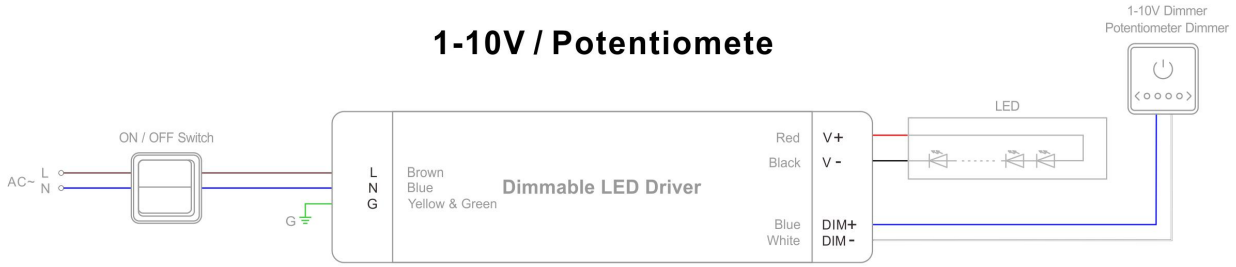
- **Using one dimming ---0-10/ 1-10V/ 10V PWM/ Potentiometer dimming**



0/1-10V



1-10V / Potentiomete



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 questions, please contact Zhuhai Shengchang.

Please visit our website or contact us for more information! www.scpower.net.cn/en