

KVG-DHS Series 150W

Whole Family: KVG-XXXXX-DHS 12V/ 24VDC - [30W 36W 60W 80W 96W 100W 120W 150W]



RoHS



Reach



Features

| | |
|-------------------------|--|
| Output: | Constant Voltage |
| Range: | 200-240VAC |
| PFC design: | Built-in active PFC function |
| Efficiency: | Up to 90% |
| Protections: | Short circuit/ over load/ over temperature |
| Heat dissipation: | Cooling by free air convection |
| Waterproof performance: | IP20 |
| Dimming function: | Phase dimming: work with Leading edge and Trailing edge TRIAC dimmer or control system 0-10V dimming: 0-10V/ 1-10V/ Potentiometer/ 10V PWM 4 in 1 |
| Dimming range: | 0-100% |
| PWM frequency | 20K Hz |
| Application: | Suitable for LED lighting and moving sign applications |
| Warranty: | 5 years warranty |

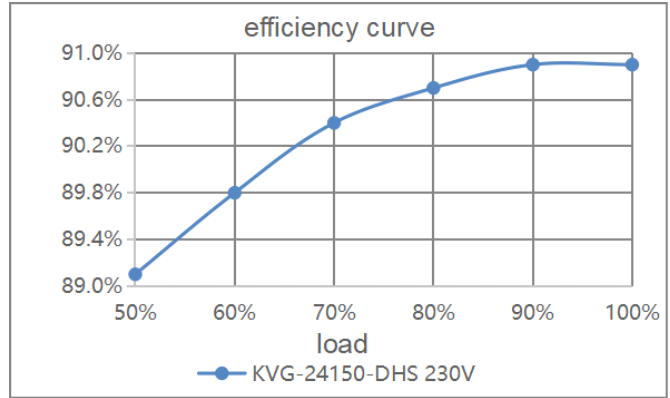
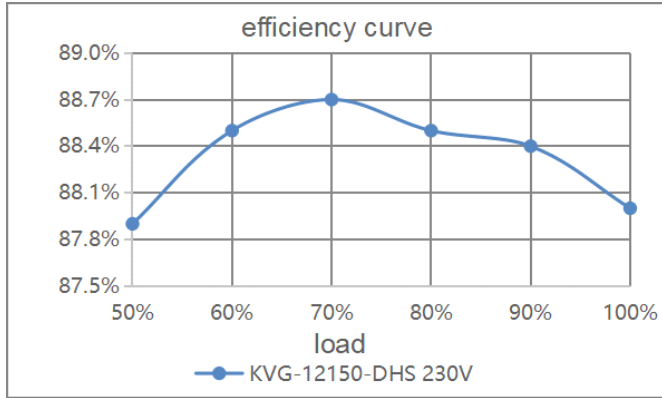
Triac/0-10V/1-10V/Potentiometer/10V PWM 5 in 1 Dimmable LED driver 150W

Specification

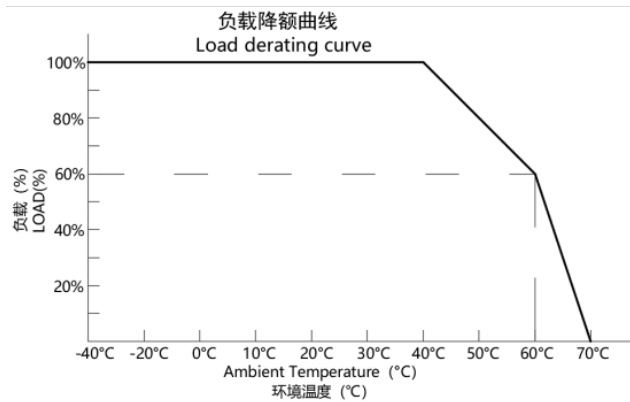
| Model | | KVG-12150-DHS | KVG-24150-DHS |
|-------------------------|--|---|---------------|
| Certificate | | ENEC /SAA / CE / ROHS / Reach | |
| Output | DC Voltage | 12V | 24V |
| | Voltage Tolerance | ±0.5V | |
| | Voltage Regulation | ±0.5% | |
| | Rated current | 12.5A | 6.25A |
| | Rated power | 150W | |
| | Load Regulation | ±2% | ±1% |
| Input | Voltage Range | 200-240VAC | |
| | Frequency Range | 47 - 63Hz | |
| | Power Factor (Typ.) @ full load | PF≥0.96/230VAC | |
| | THD(Typ.) @ full load | < 10% | |
| | Efficiency(Typ.) @ full load | 90% | |
| | AC Current (Max.) | 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℃±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 TEM.,Humidity | -40 - +80℃,10 - 95% RH non-condensing | |
| | 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 EN62493 | |
| | Withstand voltage | I/P-O/P:3.75KVAC | |
| | Isolation resistance | I/P-O/P:100MΩ / 500VDC / 25℃ / 70%RH | |
| | EMC Emission | EN55015 EN61000-3-2 EN61000-3-3 EN61547 | |
| Others | Net Weight | 0.38Kg | |
| | Dimension | 367.8*29.9*22.5mm(L*W*H) | |
| | Packing | 385*270*185mm 50pcs /CTN 20Kg/CTN | |
| Notes | <ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at rated load and 25℃ of ambient temperature. Tolerance: includes set up tolerance and load regulation. | | |

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Efficiency Curve (efficiency vs output load)

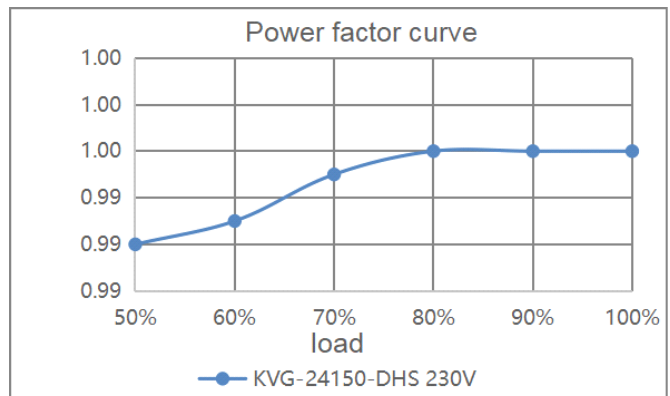
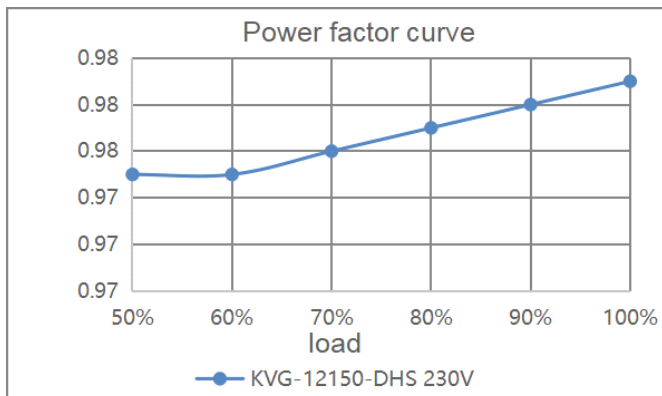


Derating Curve (output load vs TEMP.)



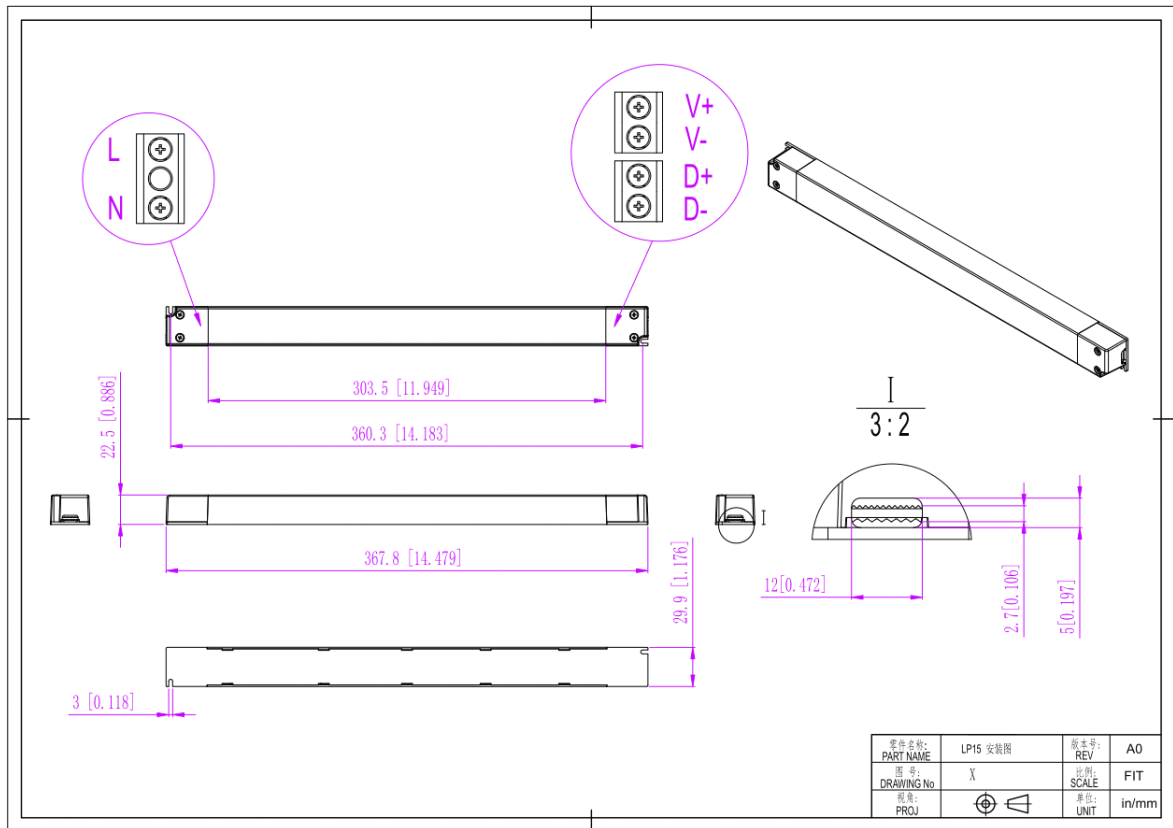
❖ To extend their life, please refer to the Derating Curve and derate according to the temperature.

Power Factor Curve



Triac/0-10V/1-10V/Potentiometer/10V PWM 5 in 1 Dimmable LED driver 150W

Mechanical Specification



12V&24V Version

1. Input terminals: (L) and (N) to connect to L and N of Mains AC.
2. Output terminals: LED (+) to LED Positive side (+) , LED (-) to LED Negative side (-).
3. Dimming Terminal: DIM (+) to 0/1-10V dimmer signal(+),DIM (-) to 0/1-10V dimmer signal(-).
4. Please DO NOT connect “DIM-“ to “LED-“, “DIM+“ to “ LED+“, or other incorrect connection.
5. Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.

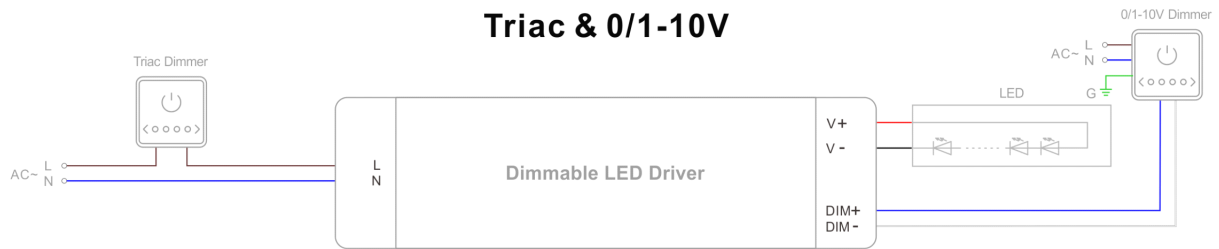
Warm tips:

1. Suggested wire diameter: Input 0.75-2mm²; Output:0.5-2mm².
2. Any other requests for, we can customized.

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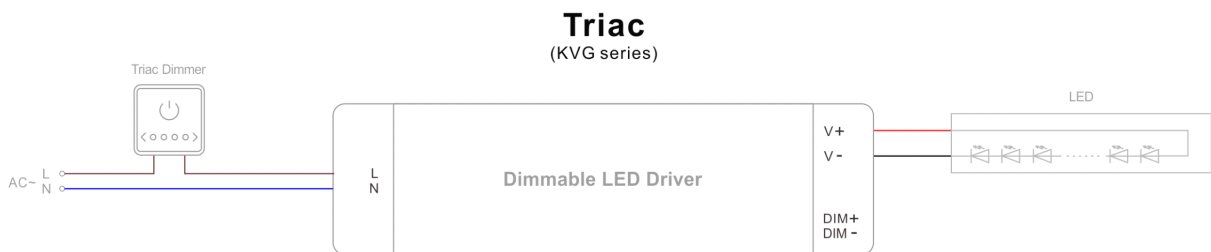
Dimming Operation and Connecting Diagram

- **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;

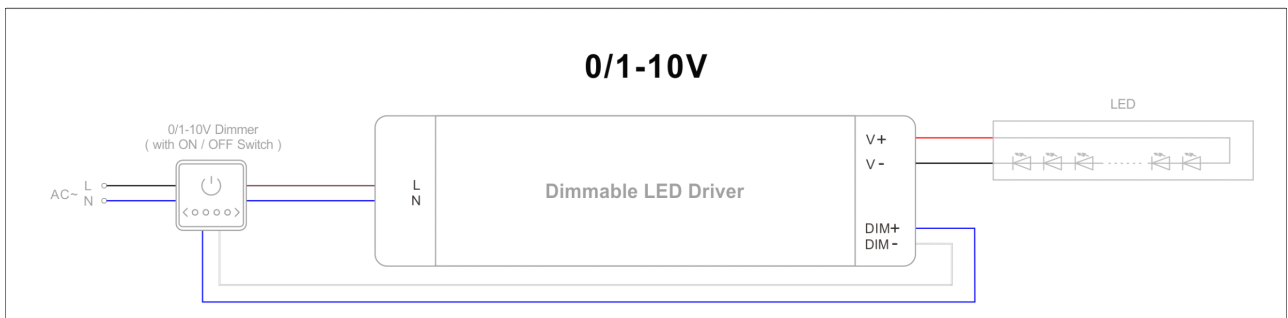


- **Using one dimming ---TRIAC/Phase cut dimming**

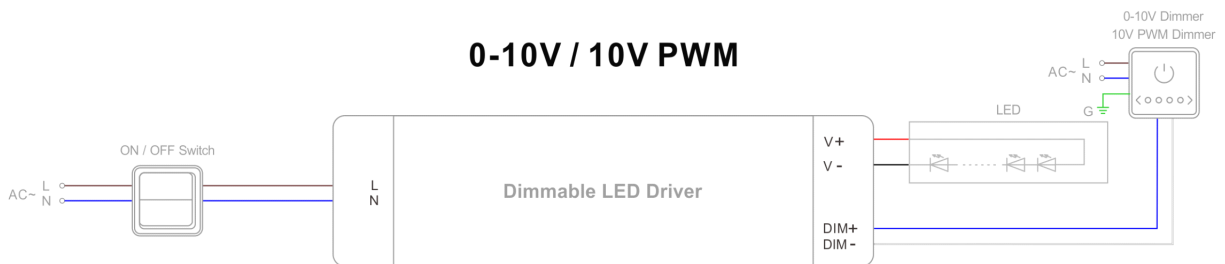
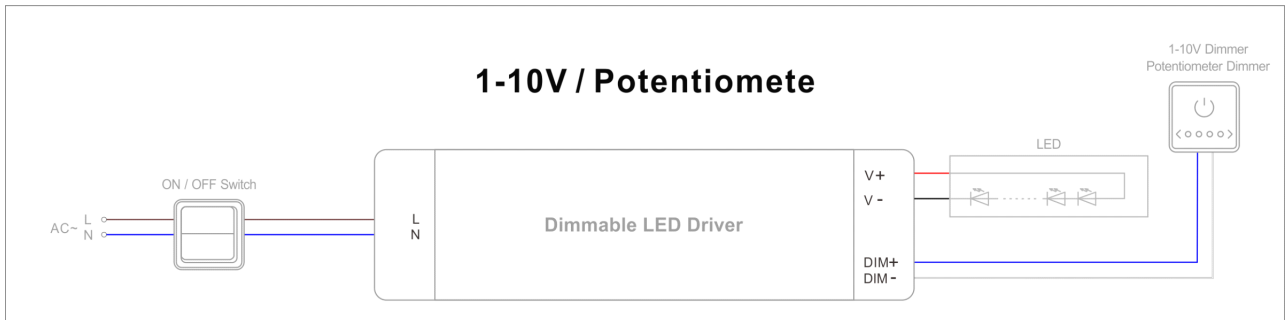
1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
2. Working with Leading edge and Trailing edge TRIAC dimmer or control system.
3. Min. loading is about 10%
4. Please try to use 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**



Triac/0-10V/1-10V/Potentiometer/10V PWM 5 in 1 Dimmable LED driver 150W



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; If the product is installed in a sealed lamp, it is recommended to reduce the load and use it; The recommended load size is $\leq 80\%$ of the rated load.
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