

Phase cut /Triac dimmable driver-PWM output

Whole Family

KVF-XXXXX-TDWJ 12V 24VDC
30W 60W 80W 96W 100W
120W 150W 200W 300W



■Features

- Output constant voltage
- UL, cUL listed, Class 2, Class P, Type HL
- Universal AC input: 100-277VAC
- Power Factor: up to 0.98
- High efficiency : up to 83%
- Dimming range: 0-100%
- Load: 10-100%
- Protection:short circuit/over loading/ Over temperature
- PWM output, does not change the color index
- Full protection aluminum housing, for dry, damp location
- Flicker-free
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
- Cooling by free air convection
- Suitable for LED lighting and moving sign applications



FC Class 2 Class P

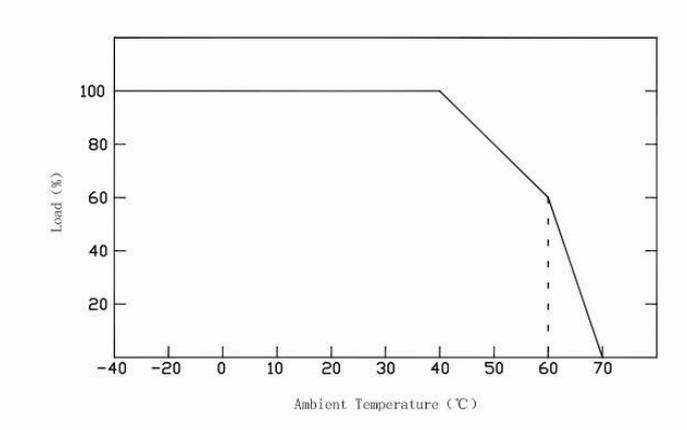
■Specification

| Model | | 8400-80W-12V | 8400-80W-24V |
|--------------|---------------------------------|---|-------------------------|
| Certificates | | FCC UL cUL Class 2 | FCC UL cUL Class 2 |
| Output | DC Voltage | 12V | 24V |
| | Rated Current | 6.6A | 3.3A |
| | Rated Power | 80W | |
| | 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 | 0.98@120VAC 0.95@277VAC | 0.98@120VAC 0.95@277VAC |
| | THD (Typ.) @ full load | <20% | |
| | Efficiency (Typ.) @ full load | 83% | 83% |
| | AC Current (Max.) | 0.9A@100VAC | |
| | Inrush Current (Typ.) | 14A, 50%, 780us | |
| | Leakage current | <0.50mA | |
| Protection | Short Circuit | shut down o/p voltage, re-power on to recover after fault condition removed | |
| | Over Loading | ≤120% Hiccup mode,recovers automatically after fault condition is removed | |
| | Over temperature | 100°C±10°C shut down o/p voltage, automatically recover after cooling. | |
| Environment | Working TEMP. | -40~+60°C (see below derating curve) | |
| | Working Humidity | 20~90%RH, non-condensing | |
| | Storage TEMP. Humidity | -40~+80°C, 10~95%RH | |
| | TEMP .coefficient | ±0.03%/°C (0~50°C) | |
| | 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°C/70%RH | |
| | EMC EMISSION | FCC Part 15 B | |
| others | Net. Weight | 1.1Kg | |
| | Size | 188*92*26mm (L*W*H) | |
| | packing | 10PCS/CTN | |

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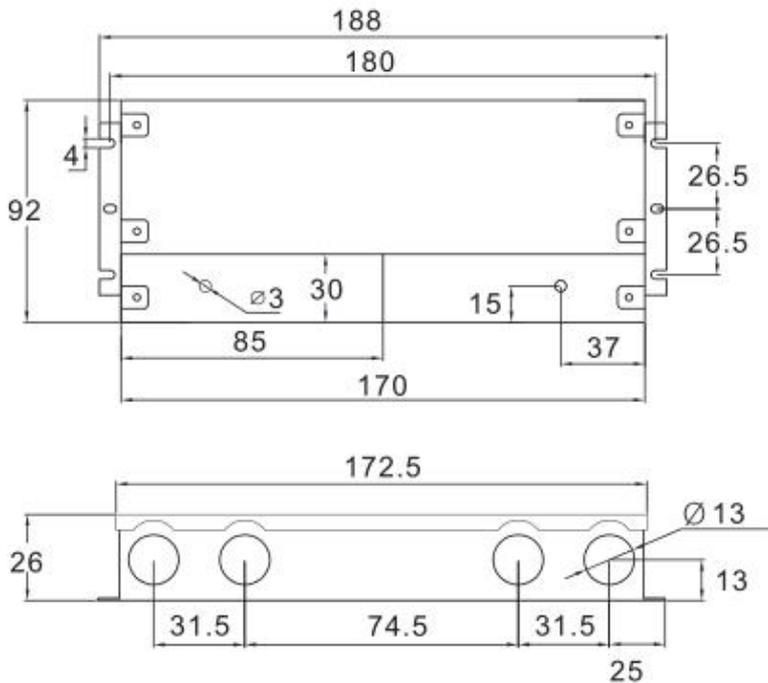
| | |
|--------------|---|
| Notes | <p>1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature.</p> <p>2. To extend the driver's using life ,please reduce the loading at lower input voltage.</p> |
|--------------|---|

Derating Curve



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

Mechanical Specification



Unite: mm

Tolerance:P 0.5-2mm

※ Input wire 18AWG Black and White to be connected to AC L and N ,Green wire go ground,

※Output wire 18AWG Red to LED Positive side (+) , Black to LED Negative side (-).

Dimming Operation

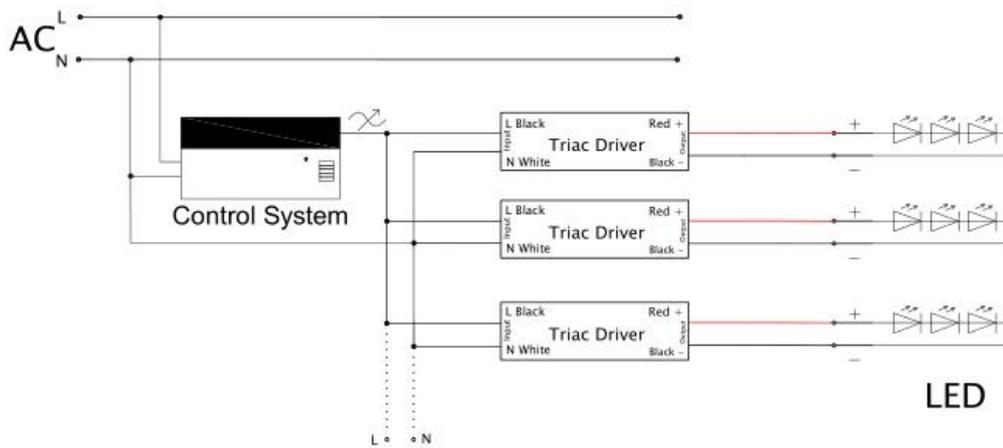
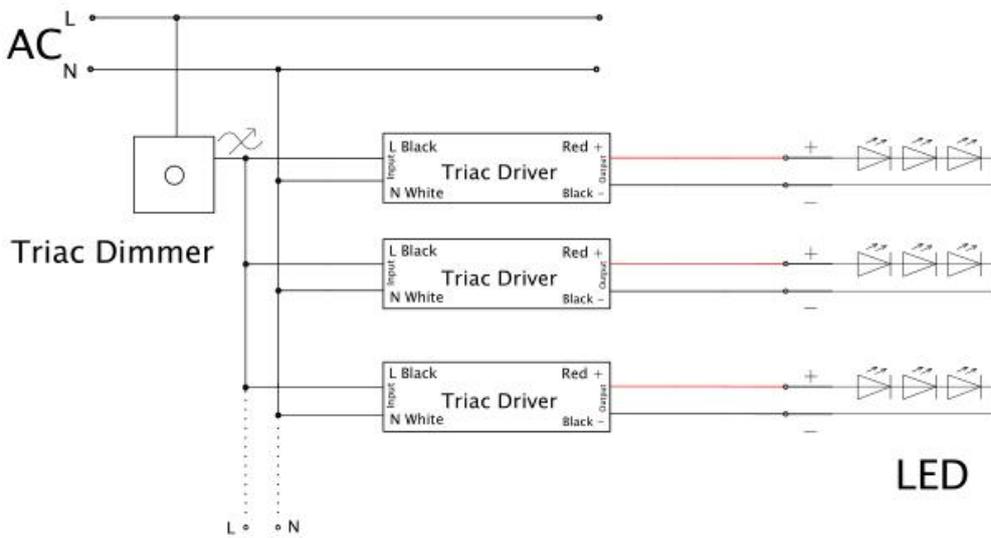
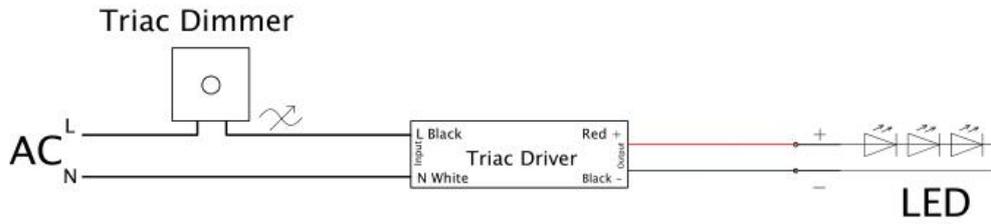
※The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase/triac dimmer.

※Usually matching with Forward phase , leading edge , Magnetic low voltage, triac dimmers, or Reverse phase, trailing edge ,Electric low voltage Dimmers.

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

■ Connecting Diagram



■ 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.

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