

Part Number : 8400-120W-12V 8400-120W-24V

Phase cut /Triac dimmable driver-PWM output KVF-TDWJ series 120W

Features

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



Output constant voltage
UL, cUL listed, Class P, Type HL
Universal AC input: 100-277VAC
Power Factor: up to 0.99
High efficiency : up to 82%
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

 Class P

Suitable for LED lighting and moving sign applications

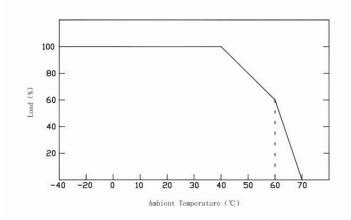
Specification

| Model | | KVF-12120-TDWJ | KVF-24120-TDWJ | |
|--------------|---------------------------------|--|------------------------------|--|
| Certificates | | FCC UL cUL | FCC UL cUL | |
| | DC Voltage | 12V | 24V | |
| | Rated Current | 10A | 5A | |
| Output | Rated Power | 120W | | |
| Output | Voltage Tolerance | ±0.5V | | |
| | Voltage Regulation | ±0.5% | | |
| | Load Regulation | ±2% | ±1% | |
| | Voltage Range | 100-277VAC | | |
| | Frequency Range | 47-63Hz | | |
| | Power Factor (Typ.) @ full load | 0.99@120VAC 0.96@277VAC | 0.98@120VAC 0.96@277VAC | |
| Input | THD (Typ.) @ full load | <20% | | |
| input | Efficiency (Typ.) @ full load | 82% | 82% | |
| | AC Current (Max.) | 1.7A@100VAC | | |
| | Inrush Current (Typ.) | 20A, 50%, 1.6ms | | |
| | Leakage current | <0.50mA | | |
| | Short Circuit | shut down o/p voltage, re-power on to recover after fault condition is removed | | |
| Protection | Over Loading | ≤120% constant current limiting, auto-recovery | | |
| | Over temperature | 100°C±10°C shut down o/p voltage, automatically recover after cooling. | | |
| | Working TEMP. | -40 \sim +60 $^{\circ}$ C (see below derating curve) | | |
| | Working Humidity | 20 \sim 90% RH, non-condensing | | |
| Environment | Storage TEMP. Humidity | -40∼+80℃,10~95%RH | | |
| | TEMP .coefficient | ±0.03%/°C (0~50°C) | | |
| | Vibration | 10 \sim 500Hz, 5G 10min./1 cycle,period for | 60min. each along X,Y,Z axes | |
| | Safety standards | UL8750 | | |
| Safety& EMC | Withstand voltage | I/P-O/P:1.88KVAC | | |
| | Isolation resistance | I/P-O/P:100MΩ/500VDC/25℃/70%RH | | |
| | EMC EMISSION | FCC Part 15 B | | |
| | Net. Weight | 1.3Kg | | |
| others | Size | 220*93*41mm (L*W*H) | | |
| | packing | 10PCS/CTN | | |

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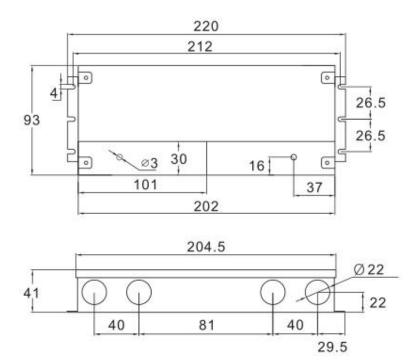
| | Notes | 1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25 $^\circ\!{ m C}$ of ambient |
|--|-------|---|
| | | temperature. |
| | | 2. To extend the driver's using life ,please reduce the loading at lower input voltage. |

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 16AWG Red to LED Positive side (+) , Black to LED Negative side (-).

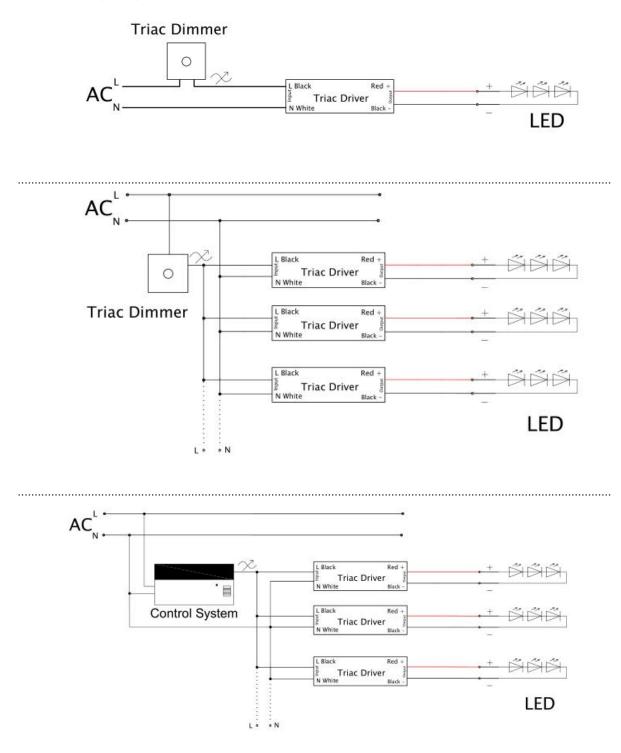
Dimming Operation

%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.

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

*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; Have any question, please contact Zhuhai Shengchang.