



96W LED DRIVERS KVF SERIES

Phase cut /Triac Dimmable LED Driver

Product Features

- Constant Voltage Driver
- Universal Input: 100-277VAC
- Built-in active PFC
- Power Factor: up to 0.98
- Efficiency: up to 83%
- Load: 10-100%
- Protection: short circuit/over load/over heat
- Dry/damp locations
- Flicker-free
- Dimming options: Triac/Phase/ELV/MLV
- 0-100% dimmable with dimmer



Class 2

Class P

PRODUCT CODE

KVF-ALS-96-24

SPECIFICATIONS

OUTPUT

DC Voltage:	24V
Rated Current:	4A
Rated Power:	96W
Voltage Tolerance:	$\pm 0.5V$
Voltage Regulation:	$\pm 0.5\%$
Load Regulation:	$\pm 1\%$

INPUT

Voltage Range:	100-277VAC
Frequency:	47-63Hz
Power Factor (Typ.) @full load:	0.98 @120VAC 0.96 @277VAC
THD (Typ.) @full load:	<20%
Efficiency (Typ.) @full load:	83%
AC Current (Max.):	1.3A @100VAC
Inrush Current (Typ.):	20A, 50%, 1.6ms
Leakage Current:	<0.50mA



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PROTECTION

- Short Circuit:** Shut down o/p voltage, re-power on to reset after fault condition is removed
- Over Loading:** $\leq 120\%$ hiccup mode, recover automatically after fault condition is removed
- Over Temperature:** $100^{\circ}\text{C} \pm 10^{\circ}\text{C}$ shut down o/p voltage, automatically recover after cooling

ENVIRONMENT

- Working Temp.:** $-40 \sim +60^{\circ}\text{C}$ (-40° to 140°F)
- Working Humidity:** 20-90% RH, non-condensing
- Storage Temp., Humidity:** $-40 \sim +80^{\circ}\text{C}$ (-40° to 176°F), 10-95% RH
- Temp. Coefficient:** $\pm 0.03\%/^{\circ}\text{C}$ ($0 \sim 50^{\circ}\text{C}$)
- Vibration:** 10~500Hz, 5G 10min./1 cycle, period for 60min., each along X, Y, Z axis

SAFETY & EMC

- Safety Standards:** UL8750+UL1310
- Withstand Voltage:** I/P-O/P: 1.88KVAC
- Isolation Resistance:** I/P-O/P: $100\text{M}\Omega/500\text{VDC}/25^{\circ}\text{C}/70\%\text{RH}$
- EMC Emission:** FCC Part 15 B

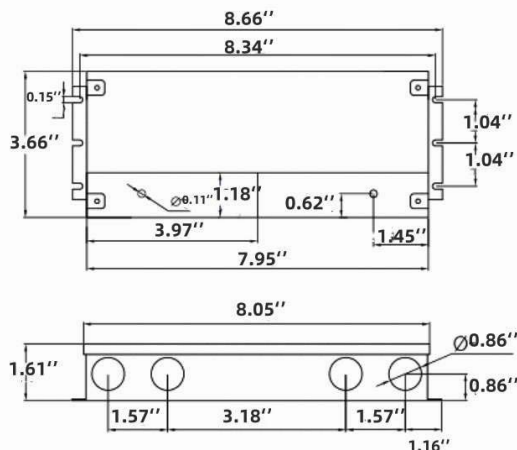
OTHERS

- Net. Weight:** 1.3kg
- Size:** 8.66*3.66*1.61 inch / 220*93*41mm (L*W*H)

Notes:

1. All parameters if NOT specially mentioned are measured at 120VAC input, under rated load and 25°C (77°F) of ambient temperature.
2. To ensure the driver's long life, please derate the output when input voltage is low.

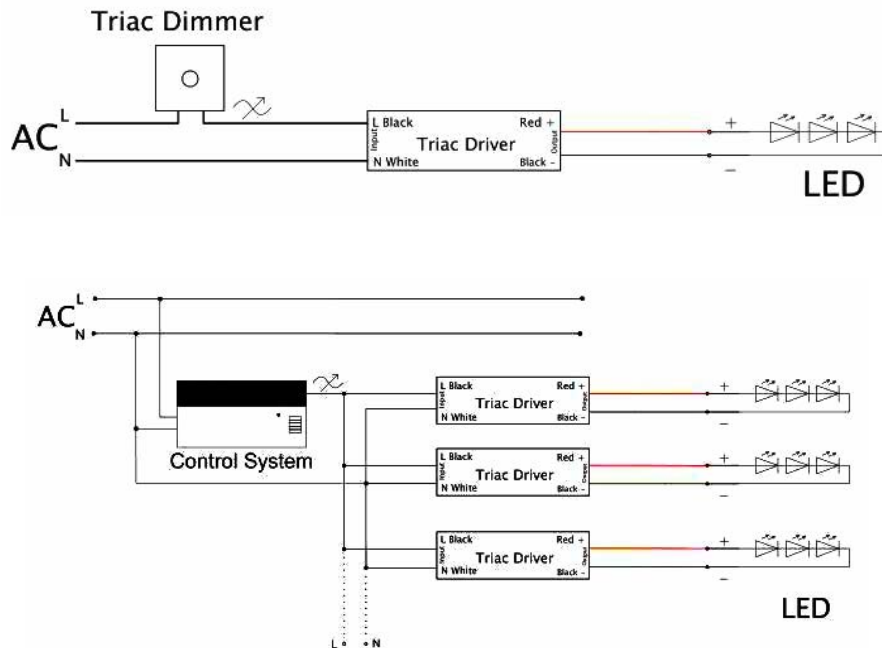
DIMENSIONS



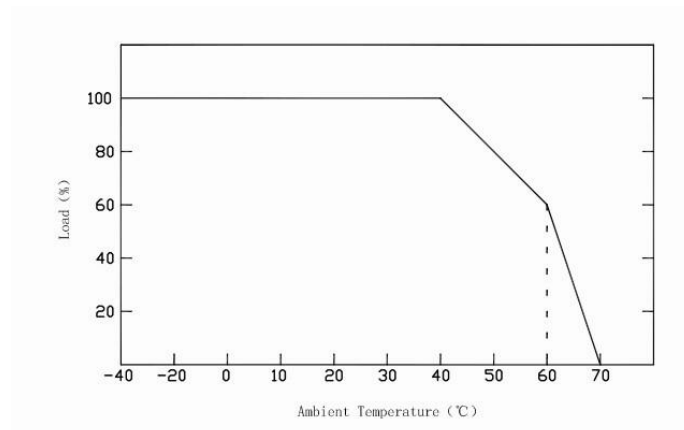
1. The input terminal has a 3-pin wire, of which the green wire is to be connected to the ground, black and white connected to AC L and N.
2. The output terminal has a 2-pin wire, red wire is V+, black wire is V-.

Wiring Diagram

Triac/Phase/ELV/MLV dimming:



Derating Curve



*To ensure the driver's long life, please refer to the Derating Curve and derate according to the ambient temperature.