

Project:	
Type:	

## KVD SERIES

0-10V/1-10V/Potentiometer/10V PWM  
4 in 1 Dimmable LED Driver

### Product Features

- Constant Voltage Driver
- Universal Input: 100-277VAC
- Built-in active PFC
- Power Factor: up to 0.99
- Efficiency: up to 92%
- Protection: short circuit/over load/over heat
- Dry/damp locations
- Flicker-free
- Dimming options: 0-10V/1-10V/Potentiometer/10V PWM
- 0-100% dimmable with dimmer



TYPE HL



### Product Code

MODEL
KVD-24300-DIMJ

CERTIFICATES
UL, cUL listed, Type HL rated, FCC

KVD	-	XX	XXX	-	DIM	X
Series		Voltage	Power		Dimming	Enclosure
		24 -24VDC	300 -300W		0-10V/1-10V/Po tentiometer/10V PWM 4 in 1 Dimmable	J - Junction box

### Specifications

OUTPUT	
DC Voltage:	24V
Rated Current:	12.5A
Rated Power:	30W
Voltage Tolerance:	±0.5V
Voltage Regulation:	±0.5%
Load Regulation:	±1%

INPUT	
Voltage Range:	100-277VAC
Frequency:	47-63Hz
Power Factor (Typ.) @full load:	0.99 @120VAC 0.95 @277VAC
THD (Typ.) @full load:	<20%
Efficiency (Typ.) @full load:	88% @120VAC 92% @277VAC
AC Current (Max.):	3.4A @100VAC
Inrush Current (Typ.):	20A, 50%, 1.9ms @120VAC 35A, 50%, 1.9ms @277VAC

<b>Leakage Current:</b>	<0.50mA
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### PROTECTION

<b>Short Circuit:</b>	Shut down o/p voltage, re-power on to reset after fault condition is removed
<b>Over Loading:</b>	≤120% hiccup mode, recover automatically after fault condition is removed
<b>Over Temperature:</b>	100°C±10°C shut down o/p voltage, automatically recover after cooling

### ENVIRONMENT

<b>Working Temp.:</b>	-40~+60°C (-40° to 140°F)
<b>Working Humidity:</b>	20-90% RH, non-condensing
<b>Storage Temp., Humidity:</b>	-40~+80°C (-40° to 176°F), 10-95% RH
<b>Temp. Coefficient:</b>	±0.03%/°C (0-50°C)
<b>Vibration:</b>	10~500Hz, 5G 10min./1 cycle, period for 60min., each along X, Y, Z axis

### SAFTY & EMC

<b>Safety Standards:</b>	UL8750
<b>Withstand Voltage:</b>	I/P-O/P: 1.88KVAC
<b>Isolation Resistance:</b>	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
<b>EMC Emission:</b>	FCC 47 CFR Part 15, Subpart B

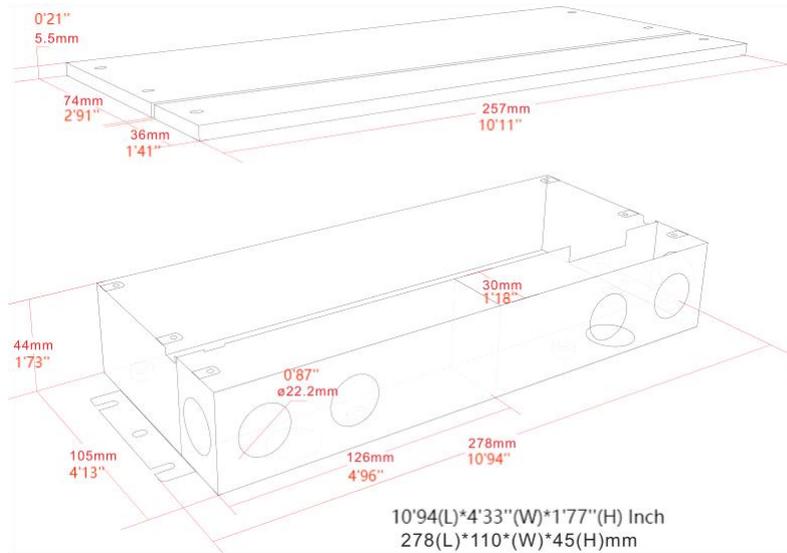
### OTHERS

<b>Net. Weight:</b>	2.0 kg
<b>Size:</b>	10.94*4.33*1.77 inch / 278*110*45mm (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-.
3. The dimming terminal has a 2-pin wire, purple wire is DIM+, grey wire is DIM-.

## Wiring Diagram

### 0-10V/1-10V/Potentiometer/10V PWM dimming:

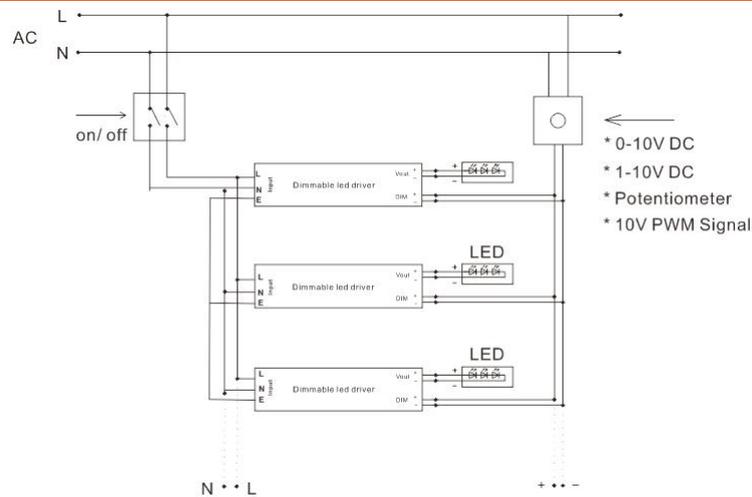


Diagram 1

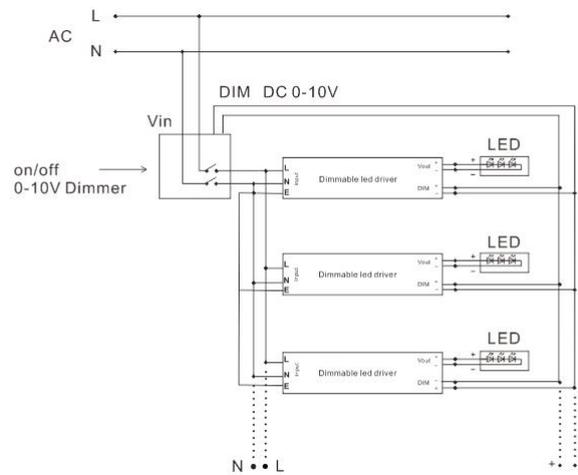
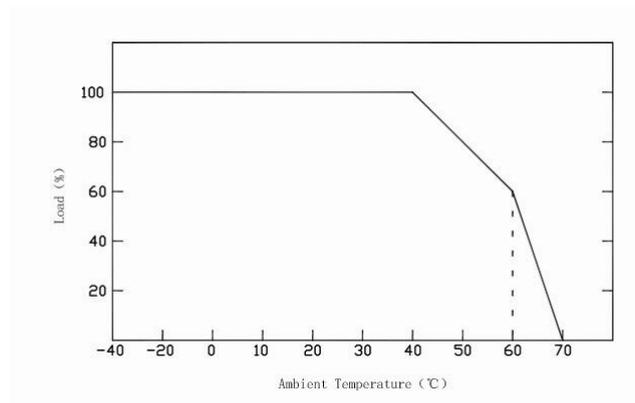


Diagram 2

### Derating Curve



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