

Project name

Type

QTY



FC Class 2 Class P

**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% for a 10-100% load
- 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
- Suitable for LED lighting and moving sign applications

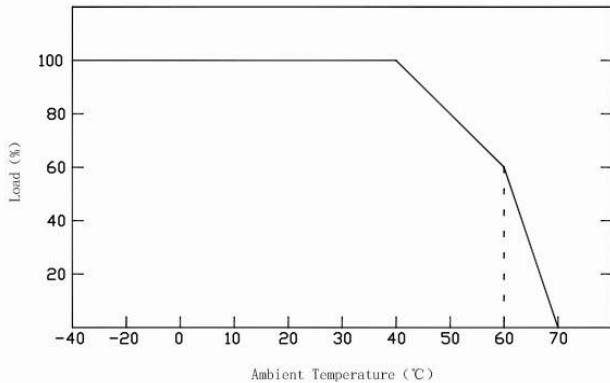
**Specification**

Model	LW-DIM-ELV- 100~277VAC- CV-12V-30W-IP67-JBX	LW-DIM-ELV- 100~277VAC- CV-12V-30W-IP67-JBX
<b>Certificates</b>	FCC UL cUL Class 2	FCC UL cUL Class 2
<b>Output</b>	DC Voltage	12V
	Rated Current	2.5A
	Rated Power	30W
	Voltage Tolerance	±0.5V
	Voltage Regulation	±0.5%
	Load Regulation	±1%
<b>Input</b>	Voltage Range	100-277VAC
	Frequency Range	47-63Hz
	Power Factor (Typ.) @ full load	0.99@120VAC 0.98@277VAC
	THD (Typ.) @ full load	<20%
	Efficiency (Typ.) @ full load	79%
	AC Current (Max.)	0.5A@100VAC
	Inrush Current (Typ.)	7A, 50%, 420us
	Leakage current	<0.50mA
<b>Protection</b>	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition is removed
	Over Loading	≤120% shut down o/p voltage, re-power on to recover
	Over temperature	100°C±10°C shut down o/p voltage, automatically recover after cooling.
<b>Environment</b>	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
<b>Safety&amp; EMC</b>	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
<b>others</b>	Net. Weight	0.95Kg
	Size	165*92*26mm (L*W*H)
	packing	10PCS/CTN

## Phase cut /Triac dimmable driver-PWM output

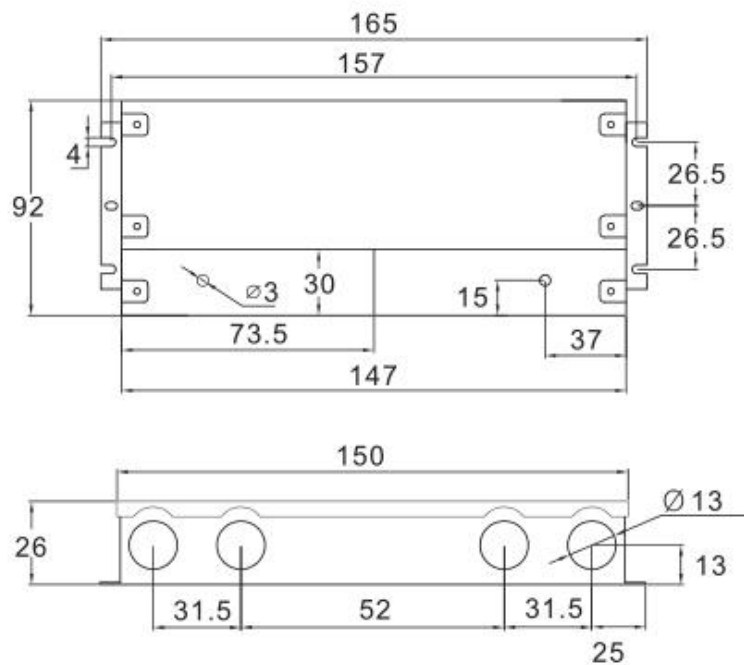
<b>Notes</b>	<p>1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature.</p> <p>2. To extend the driver's using life ,please reduce the loading at lower input voltage.</p>
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## ■ Derating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



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

## ■ Mechanical Specification



## ■ 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.

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 (-).

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**■ 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.

**Phase cut /Triac dimmable driver-PWM output KVF-TDWJ series 96W**

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

**■ Connecting Diagram**

