

# 0-10V Constant Voltage Dimming Driver

## Summary

a constant voltage mode output LED driver.

This driver can be controlled by external signal (0-10V active signal, adjustable resistance and PWM signal) to achieve a smooth dimming effect.

## Product Features

- Single channel constant voltage output,4A Max
- Support 3-in-1 dimming mode( 0-10V active signal, adjustable resistance and PWM signal)
- High input voltage of 120VAC ~ 277VAC
- Dimming range of 1-100%, and dimming effect smooth, no flicker ·100% output when no dimming signal input, can be used as normal power supply
- Over load protection; over voltage protection; short circuit protection; Over temperature
- IP20, suitable for indoor LED lighting application



## Technical Parameters

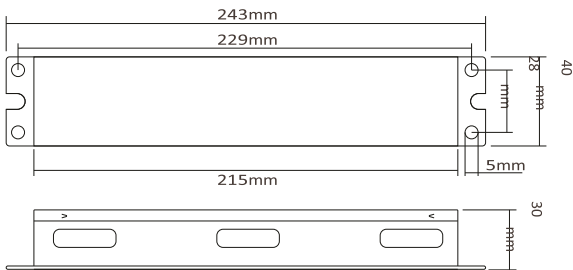
Model		IL-1W24V
Output	Channel	1
	Voltage	24VDC
	Frequency	1KHz PWM
	Current	4A
	Power	96W
	Current Accuracy	±3%
	R & N (Max)	<300mVp-p
Input	Voltage	120VAC-277VAC
	Frequency	50/60Hz
	Efficiency	>89%@120VAC,full load
	PF	≥0.99@120VAC,full load
	THD(Full Load)	<10%@120VAC,full load
	Current	1.1Amax@120VAC
	Inrush current	Cold start,45A@120VAC
Standby power	<2.5W	
Protection	Over Voltage	Hiccup, recovers after fault condition is removed
	Over load	Hiccup, recovers after fault condition is removed
	Short circuit	Hiccup, recovers after fault condition is removed
	Over temperature	Shut down and auto-restart after normal temperature
Safety&EMC	Surge	L-N:2.5KV
	Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA
		I/P-Gnd: 1500VAC/1min/5mA
		O/P-Gnd: 500VAC/1min/5mA
	Safety standards	UL8750/UL1310/CSA25013,CSA class P
EMC Eission	EN50515,EN61000-3-2 Class C,IEC61000-3-3	
EMC Immunity	FCC class B(120V)/class A(277V)	
Function	Dimming type	0-10V
	Dimming range	1%-100%
Others	Dimension	243*40*30mm (L*W*H)

G.W.	700g
IP rating	IP20
Working temp.	-20°C~60°C
tc	90°C
Relative humidity	20~90% RH
Lifetime	50,000h@tc:70°C
Material	Metal
Switch cycle	>100,000 小时

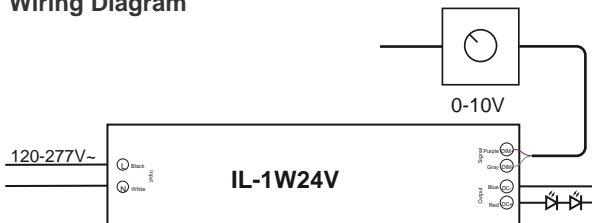
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User Manual:V01

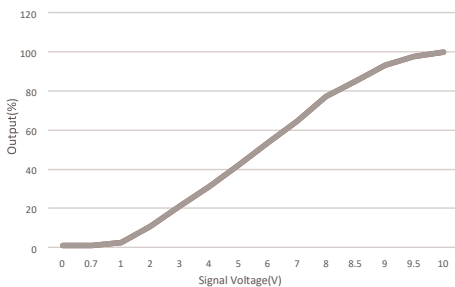
## Dimension (mm)



## Wiring Diagram



## Dimming Curve



## Cautions

- 1.The product shall be installed and serviced by a qualified person.
- 2.This product is non-waterproof. Please avoid the sun and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.
- 3.Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 4.Please check if the output voltage and current of any LED power supplies used comply with the requirement of the product.

5. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current.

Please also ensure that the cable is secured tightly in the connector.

6. For safety consideration, PVC or rubber cord of 0.75-1.5mm<sup>2</sup> is recommended for input and output terminal(s) (excluding signal terminals). Flat power cord is not suitable. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.

7. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.