

Constant Voltage Phase 4in1 Dimming/Triac dimmable driver ----200W series



Description

- .Output constant voltage
- .Triac dimmable with PWM/0-10V/Resistance
- .High efficiency:up to 86%
- .Protection:short circuit/over loading/over current/Over temperature
- .Full protection aluminum housing
- .Easy installation
- .Cooling by free air convection
- .Strong compatibility,flicker-free dimming
- .Compliance to worldwide safety regulations for lighting

Application

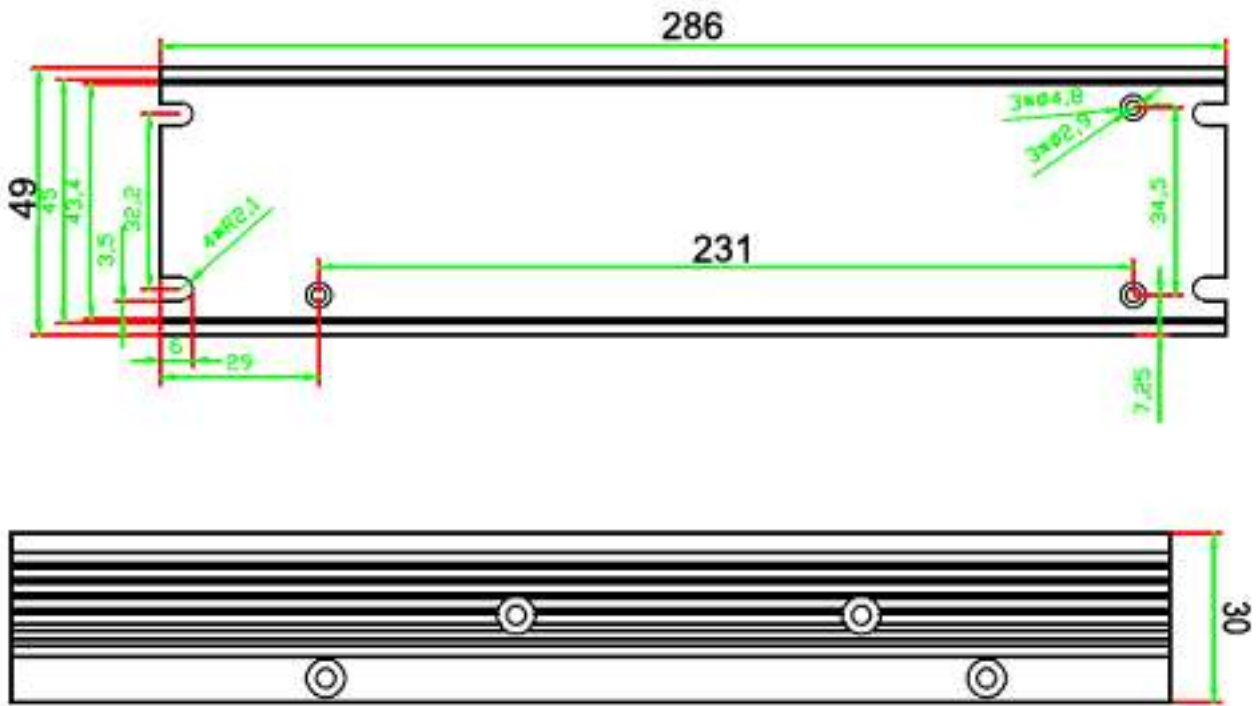
- .Suitable for LED lighting and moving sign applications and others

Specification

Model		200CV-V012-S-TD	200CV-V024-S-TD	200CV-V036-S-TD	200CV-V048-S-TD
Cerlificates		CE、RoHs、FCC	CE、RoHs、FCC	CE、RoHs、FCC	CE、RoHs、FCC
output	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±0.5V			
	Raterd current	16,6A	8.3A	5.5A	4.1A
	Rated power	200W	200W	198W	197W
input	Voltage Range	195~264VAC	195~264VAC	195~264VAC	195~264VAC
	Frequency Range	47~63HZ			
	Efficiancy(Typ)	86%~88%			
	AC Current(Typ)	2.5A			
	Leakage current	< 0.3mA@230VAC			
	Short Circuit	Not output current, recovers automatically after fault comdition is removed			
Protection	Over Current	≤1.4*I out			
	Over Loading	110%~130%			
	Over temperature	100℃ ± 10℃ (The output voltage will turn off when the temperature is higher then 100℃ ± 10℃ ,after the temperature drop off,it will recovery)automatic			
	Working TEMP	-30~+60℃			
Environment	Working Humidity	10~50%RH,non-condensing			
	Storage TEMP Humidity	-40~+80℃,10~90%RH			
	TEMP coefficient	±0.03%/℃(0~50℃)			

	Vibration	10~500HZ,2G 10min/1 cycle,periok for 60min.each along X,Y,Z axes
	Safety standards	UL1012,UL8750,UL935,UL1310
Safety&EMC	Withstand voltage	I/P-O/P:1500KVAC
	Isolation resistance	I/P-O/P:100M Ω /500VDC/25 $^{\circ}$ C /70%RH
	EMC EMISSION	FCC Part 15 B,EN55015
	Net Weight	950g
others	Size	286*49*30mm(L*W*H)
	packing	10PCS/CTN

Mechanical Outline:(Unit:mm)



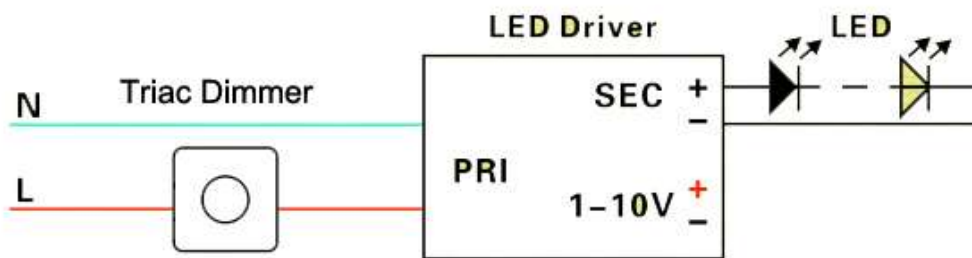
DIMMING OPERATION

Built-in 4in1 dimming function,output constant Voltage level can be adjusted through

- 1)input cable(L) by connecting a triac dimmer;
- 2)output cable by connecting a resistance
- 3)output cable by connecting 1-10VDC signal between DIM+ and DIM-.
- 4)output cable by connecting 10V PWM signal between DIM+ and DIM-.

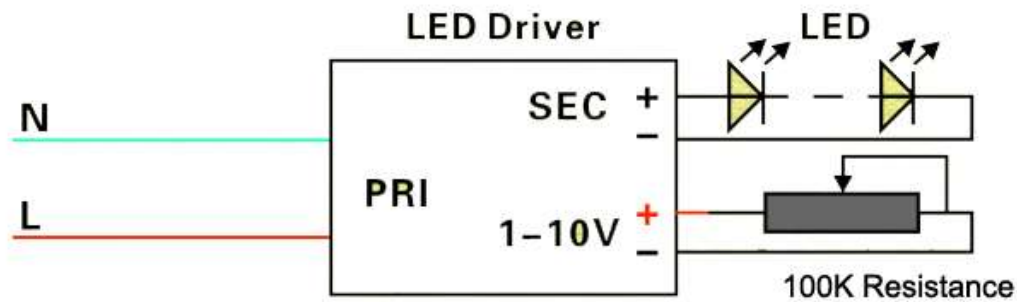
※**Triac Dimmer for output voltage adjustment**

The Diagram of Triac Dimming



※**Reference resistance value for output voltage adjustment(Typical)**

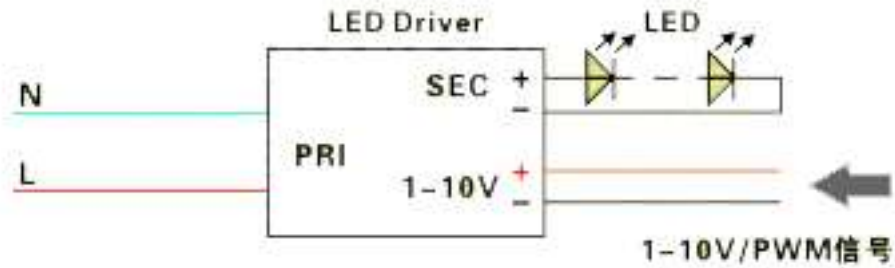
100K Resistance dimming Diagram



Resistance Value	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω
Percentage of Rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

※1-10V dimming function for output voltage adjustment(Typical)

1-10V/PWM Diagram



Dimming Value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V
Percentage of Rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

※10V PWM signal for output current adjustment (typical):Frequency range:100Hz-3KHz

1-10V/PWM Diagram



Duty Value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Percentage of Rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%