

## 277VAC, 0-10V/Potentiometer/10V PWM Dimmable constant voltage LED driver. (30~300W available)

■ Features:

- Output constant voltage type
- Range 100-305VAC , Typical: 100-277VAC
- Built-in PFC function PF>0.90
- Efficiency > 88%
- Protections:short circuit/over current/over voltage/over temperature
- Cooling by free air convection
- IP20 design for indoor or outdoor installations .
- Dimming function:0-10V/ 1-10V/ 10VPWM signal or resistance .
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- 7 years warranty



Specification

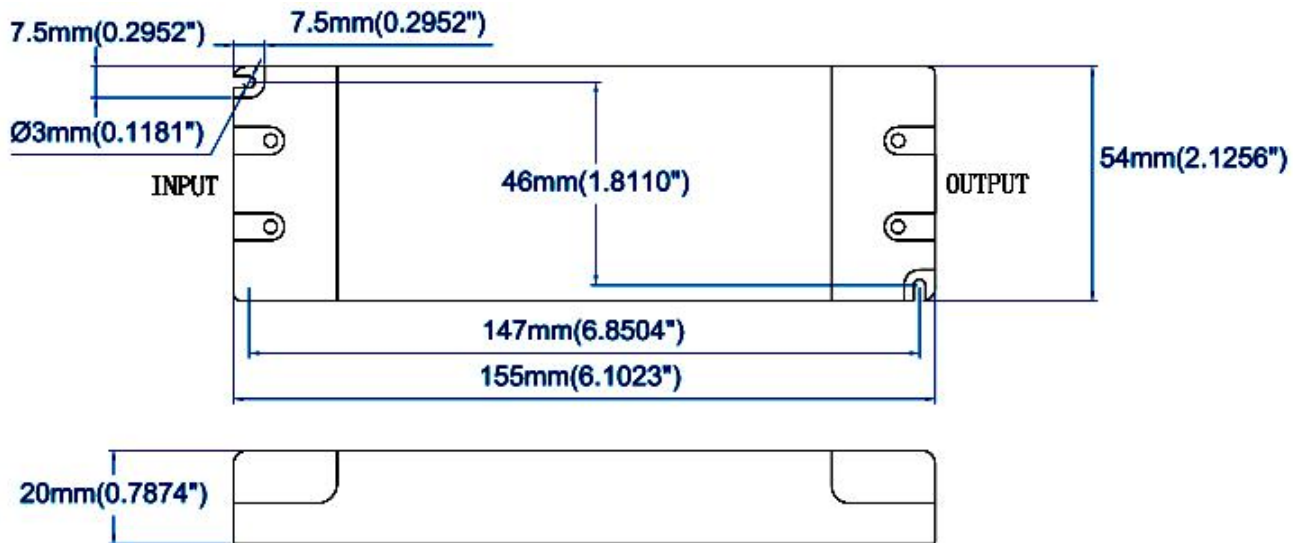


**Class 2 Class P Type HL CE IP20**

Model		CIP-SMT-012-030VDHW	CIP-SMT-024-030VDHW
Output	DC Voltage	12VDC	24VDC
	Voltage Accuracy	±5%	±5%
	Rated current	1.66Amp	0.83Amp
	Rated power	30W	30W
	Voltage Regulation	±0.5%	
	Load Regulation	±1%	
Input	Voltage Range	100-277 VAC	
	Frequency Range	47~63HZ	
	Power Factor ( Typ. )	0.98@120VAC 0.98@277VAC	0.98@120VAC 0.98@277VAC
	Full Load Efficiency	>88%	>89%
	AC Current ( Typ. )	0.53A/110VAC / 0.33A/277VAC	
	Leakage current	<0.50mA	
Protection	Short Circuit	Hiccup mode, recovers automatically 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	
Environment	Working TEMP.	-40~+60°C	
	Working Humidity	20~95%RH,non-condensing	
	Storage TEM.,Humidity	-40~+80°C , 10~95%RH	
	TEMP.coefficient	±0.03%/°C (0~50°C)	
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min.each along X,Y,Z	

<b>Safety&amp;EMC</b>	Safety standards	Class P, Type HL, EN61347-1 EN61347-2-13
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
	EMC EMISSION	FCC Part 15 B
	EMC IMMUNITY	Compliance to EN55015; EN61000-4-2,3,4,5,6,8,11, EN61547 Alight industry level (surge 4KV)
<b>Others</b>	Weight	About 0.25Kg
	Size	155*54*20mm (L*W*H)
	packing	40PCS/CTN
<b>Notes</b>	1. All parameters NOT specially mentioned are measured at 110V/277VAC input , rated load and 25°C of ambient temperature. 2. Ripple& noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &47uf parallel capacitor. 3. Tolerance:includes set us tolerance,line regulation and load regulation .	

### ■Mechanical Specification



- ※ Input (L) and (N) with wires to be connected AC.
- ※ Output LED SEC : Red wire to LED+, Black wire to LED-
- ※ Output 18AWG\*2C, Blown is output (V+) ,Blue is output (V-)

### ■Dimming Operation

※Built-in 3 in 1 dimming function, I67 rated. Output constant current level can be adjusted through output cable by connection a resistance or 1-10V DC or 10V PWM signal between DIM+ and DIM-

※Reference resistance value for output current adjustment (Typical)

Resistance value	Signal driver	0Ω	10KΩ	20KΩ	30KΩ	40KΩ	50KΩ	60KΩ	70KΩ	80KΩ	90KΩ	100KΩ	OPEN
	Multiple drivers	0Ω/N	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	—

Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%-108%
-----------------------------	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	-----------

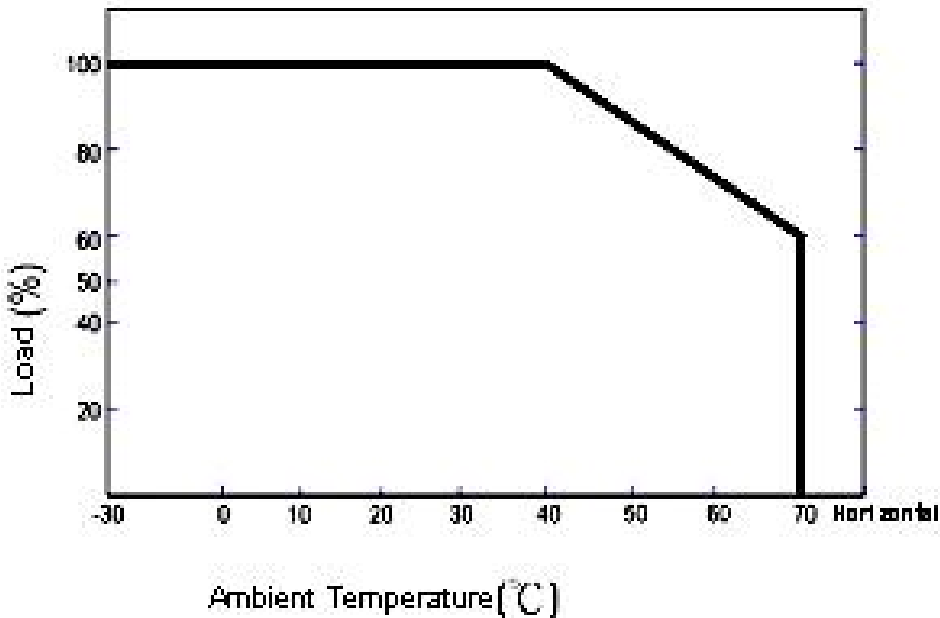
※1-10V/0-10V dimmable function for output current adjustment (Typical)

Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%-108%

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

Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%-108%

## ■Derating Curve



※Load carried in accordance with the load derating curve, according to the ambient temperature derating, in order to extend the working life.

■ 0/1-10V / Potentiometer / 10V PWM (3 in 1) Dimmable LED Driver connecting solution:

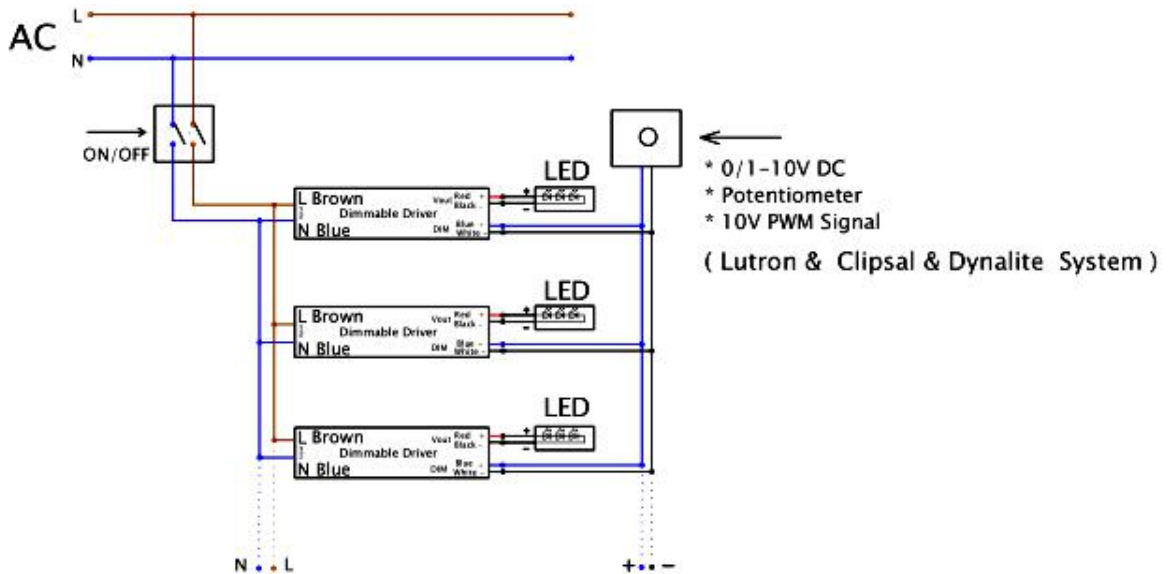
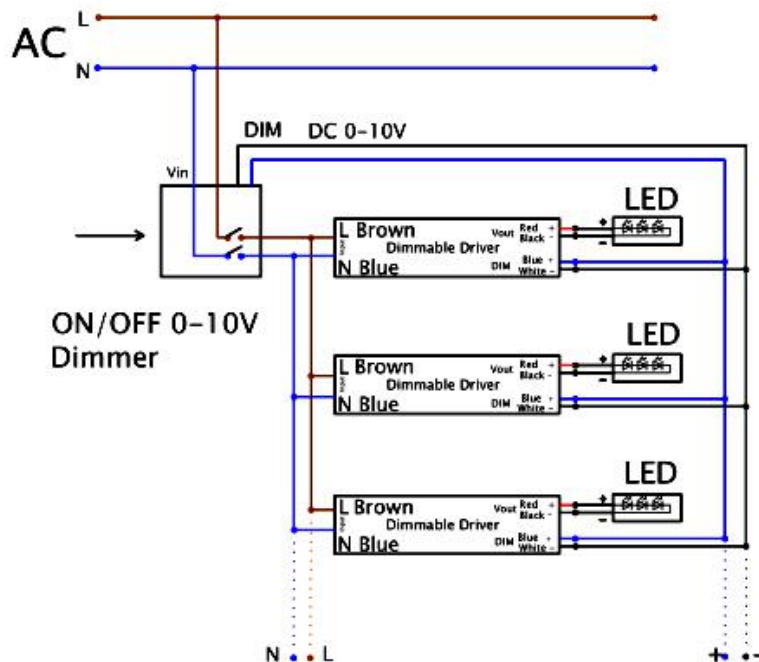


Diagram 1

Diagram 2 as below:



**Instruction:**

- ※ This driver should be installed by qualified and professional person;
- ※ Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
- ※ Ensure that wiring is correct before test in order to avoid light and power supply damage;
- ※ If the dimmable LED drivers do not work normally, don't maintain privately, but contact us