

**277VAC, 0-10V/Potentiometer/10V PWM Dimmable(3 in 1)
constant voltage LED driver 100W. (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
- IP67 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/wet locations
- 7 years warranty



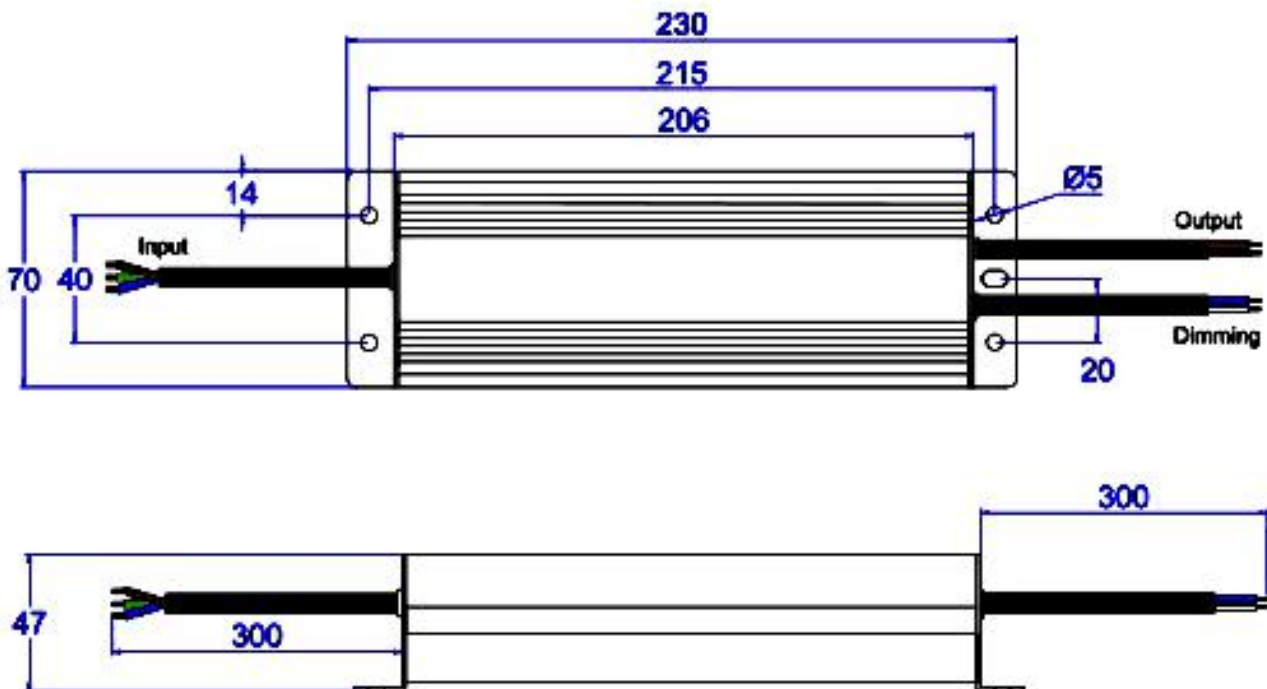
Specification

CE Class P Type HL UL/cUL RoHS SELV IP67

Model		CIP-SMT-012-100VDHW	CIP-SMT-024-096VDHW
Output	DC Voltage	12V	24V
	Voltage Accuracy	±0.5V	
	Rated current	8.33A	4.0A (Class 2)
	Rated power	100W	96W
	Ripple&noise Max.	200mVp-p	250mVp-p
Input	Voltage Range	100~130VAC, 170~265VAC	
	Frequency Range	47~63HZ	
	Power Factor (Typ.)	>0.90	>0.90
	Full Load Efficiency (Typ.)	>88%	>88%
	AC Current (Typ.)	1.010A/120VAC 0.713A/170VAC	0.550A/220VAC 0.457A/277VAC
	Leakage current	< 0.25mA/110V,277VAC	
Protection	Short Circuit	Protection type: Hiccup mode, recovers automatically after fault condition is removed	
	Over voltage	≦ 280VAC	
	Over temperature	100°C±10°C shut down o/p voltage, re-power on to recover	
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	

Safety&EMC	Safety standards	Class P, Type HL, EN61347-1 EN61347-2-13 IP67
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC
	Isolation resistance	I/P-O/P I/P-FG O/P-FG: 100MΩ/500VDC/25°C/70%RH
	EMC EMISSION	Compliance to EN55015,EN61000-3-2 (≧50%Load)
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11,EN61547,Alight industry level (surge4KV)
Others	Weight	1.32Kg
	Size	230*70*47mm (L*W*H)
	packing	329*279*176mm/10pcs
Notes	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 110V, 277VAC input , rated load and 25°C of ambient temperature. Ripple& noise are measured at 20MHz of bandwidth by using a 12"twisted pair-wire terminated with a 0.1uf &47uf parallel capacitor. Tolerance:includes set us tolerance,line regulation and load regulation . 	

■ Mechanical Specification



※Input 18AWG*3C, the green/yellow cable connect with (FG), Brown with AC (L),Blue with AC(N)

※Signal 18AWG*2C, Red is (DIM+) ,Black is (DIM-)

※Output 18AWG*2C, Blown is output (V+) ,Blue is output (V-)

※Note: Any other requests we can customized.

■ 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%

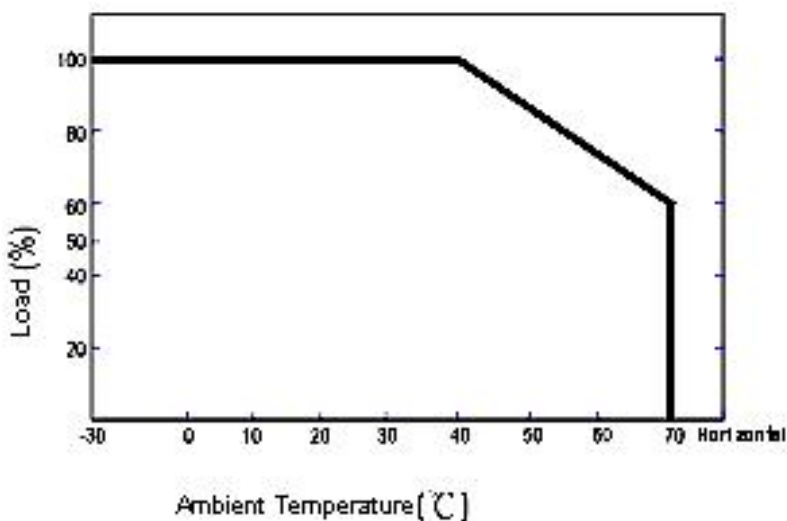
※ 1-10V/0-10V dimmable function for output current adjustment(Typical)

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:

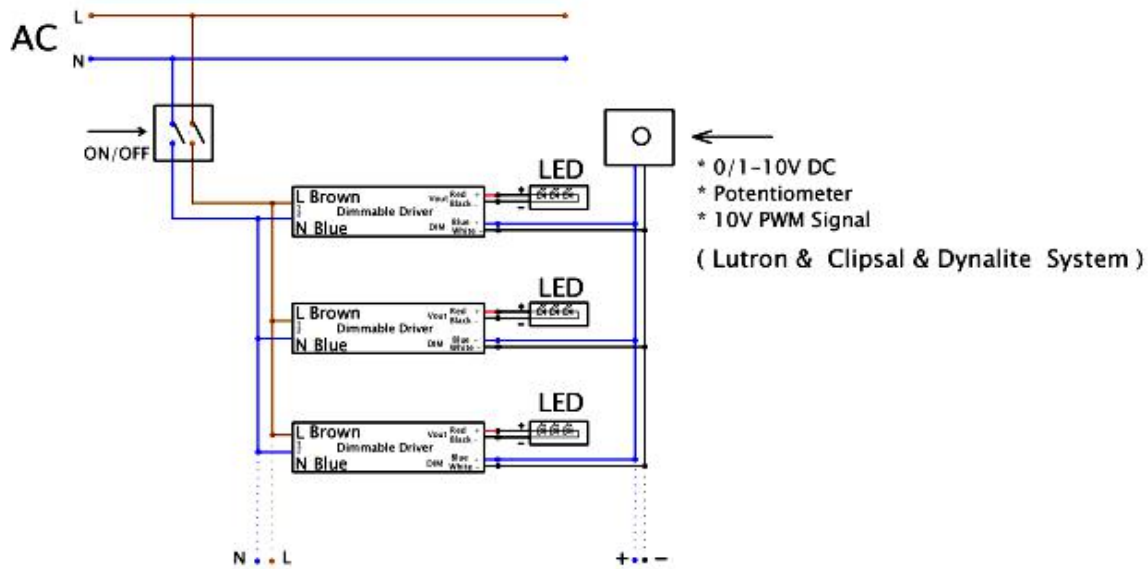
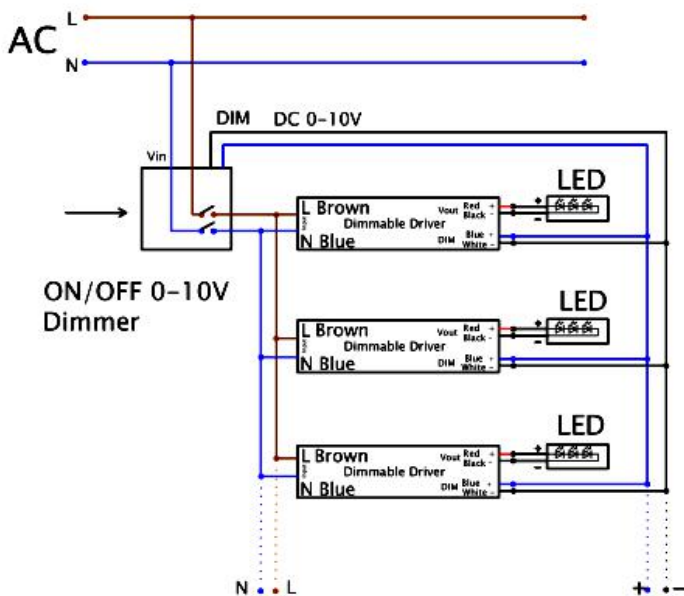


Diagram 1

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, pl. don't maintain privately, contact us.