

277VAC, 0-10V/Potentiometer/10V PWM Dimmable(3 in 1) constant voltage LED driver 60W. (30~300W available)



■ Features:

- Output constant voltage type
- Range 100-305VAC , Typical: 100-277VAC
- Built-in PFC function PF>0.95
- 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/wet locations
- 7 years warranty

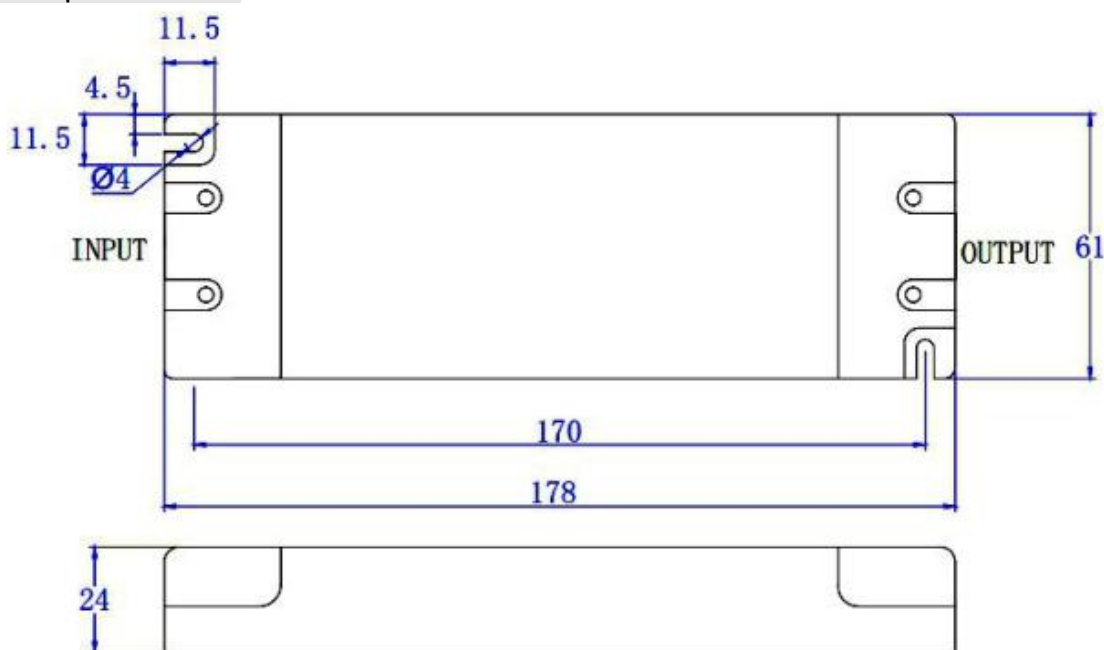
Specification



model		CIP-SMT-012-060VDHW	CIP-SMT-024-060VDHW	
Output	DC Voltage	12V	24V	
	Voltage Accuracy	±0.5V	±0.5V	
	Voltage Regulation	±0.5%		
	Rated current	5.00A	2.50A	
	Load Regulation	±1%		
	Rated power	60W	60W	
Input	Voltage Range	100-277V AC		
	Frequency Range	47~63HZ		
	Power Factor (Typ.)	0.98@120VAC 0.98@277VAC	0.98@120VAC 0.98@277VAC	
	Full Load Efficiency (Typ.)	>88%	>89%	
	AC Current (Typ.)	0.9A/110VAC / 0.64A/277VAC		
	Inrush Current (Typ.)	14A, 50%, 780us		
	Leakage current	<0.50mA		
	Over temperature	100°C±10°C shut down o/p voltage, automatically recover after cooling.		
	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed		
	Over Loading	≤120% Hiccup mode,recovers automatically after fault condition is removed		
	Over voltage	≤ 140VAC(90~135V) , ≤ 285VAC(170~277V)		
	Environ ment	Working TEMP.	-40~+60°C	
		Working Humidity	20~90%RH,non-condensing	
Storage TEM.,Humidity		-40~+80°C , 10~95%RH		
TEMP.coefficient		±0.03%/°C (0~50°C)		
Vibration		10~500Hz, 2G 10min./1 cycle, period for 60min. each along X,Y,Z axes		
Safety& EMC	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)
Others	Weight	About 0.35Kg
	Size	178*61*24mm (L*W*H)
	packing	20PCS/CTN
Notes	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 rate current		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%-108%

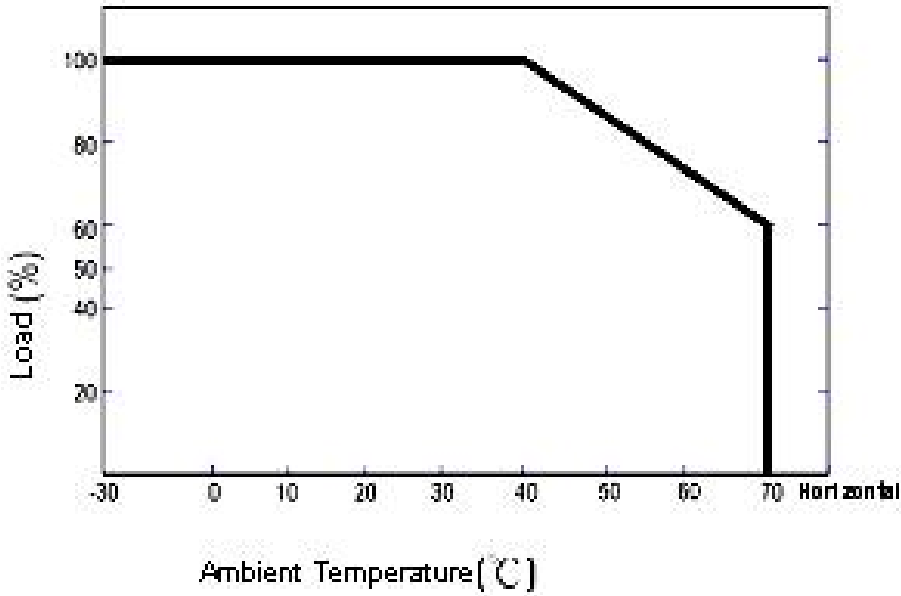
※1-10/0-10V dimmable function for output current adjustment(Typical)

Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rate 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 rate 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:

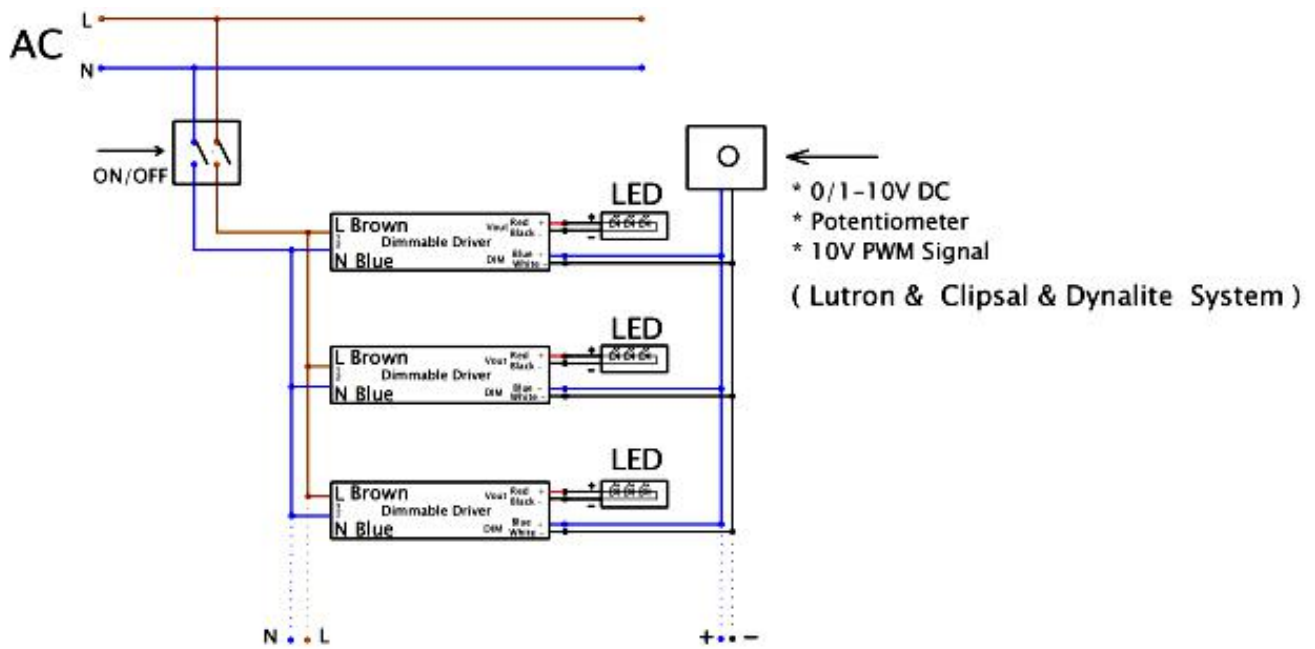
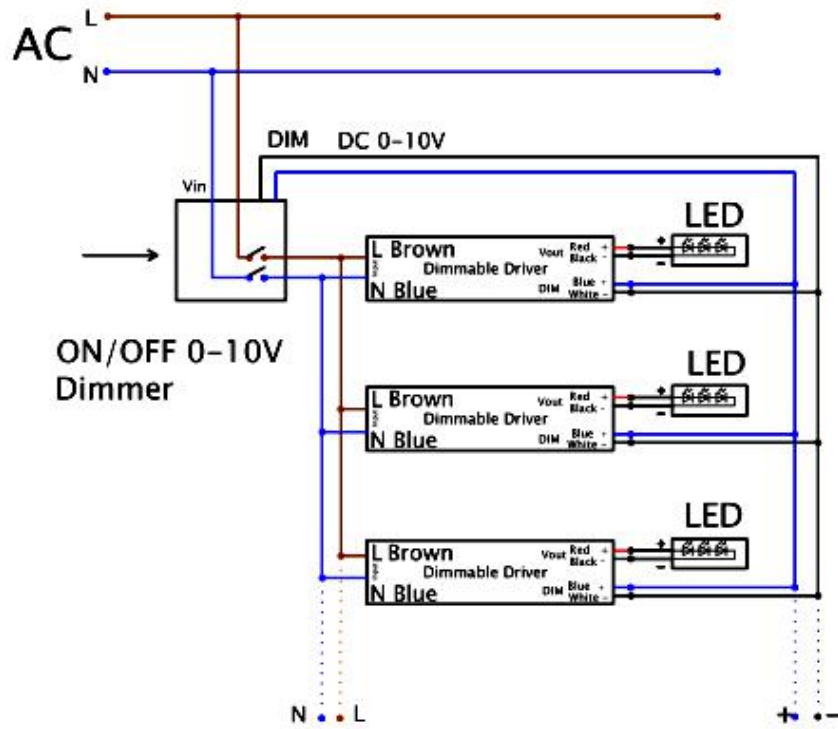


Diagram 1

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