



SHENZHEN OTTIMA TECHNOLOGY CO., LTD.

Add: Floor 3, Building 8, Lihao Industrial Park, 78 Ainan Road, Baolong Street, Longgang District, Shenzhen, Guangdong, China.

Tel: 0086-755-89257015 Fax: 0086-755-89257085

Web: <https://szottima.en.alibaba.com> / <https://www.ottima-tech.com>

Driver+ Dimmer (2 in 1) LED Constant Voltage Drive 120W 160W PWM output

Features

 	Output:	Constant Voltage
	Input Range:	120VAC
	PFC design:	Built-in active PFC function
	Protections:	Short circuit/ Over load/ Over temperature
	Heat dissipation:	Cooling by free air convection
	Waterproof performance:	For dry and damp locations (US)
	Design features:	1) Fine-tune output voltage can be adjusted slightly 2) Preset dimmer with on/off function 3) 3-Way switches 4) Eliminated compatibility issues between drivers and switches
	Dimming range:	0.3%-100%
	Application:	Suitable for the application of LED lighting
	Warranty:	5 years warranty
	Others:	16KHZ PWM output with dimming curve is a gamma 2.2 curve Flicker-free

Specification

Model		OTM-BD120-12-D	OTM-BD160-24-D	OTM-BD160-48-D
Certificate		UL / cUL / FCC / Class P / SELV / RoHS / Reach		
Output	DC Rate Voltage	12V (12V-13.5V adjust by knob)	24V (24V-26V adjust by knob)	48V (48V-50V adjust by knob)
	Voltage Tolerance	±0.5V		
	Load Regulation	≤2%	≤1%	≤1%
	Line Regulation	≤0.5%		
	Rated current	10A	6.67A	3.33A
	Rated power	120W	160W	160W
	Voltage Ripple	3%	2%	1%
Input	Voltage Range	120VAC		
	Frequency Range	60Hz		
	Power Factor @ full load	0.99		
	THD(Typ.) @ full load	≤10%		
	Efficiency @ full load	93.3%	94.5%	95%
	AC Current (Max.)	1.1A	1.5A	1.5A
	Inrush Current (Typ.)	54A, 290us@50%Ipeak		
	Leakage current	<0.5mA		
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed		



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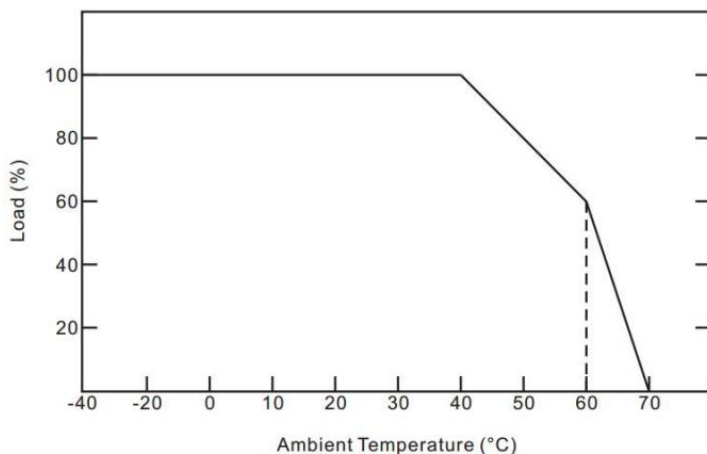
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Protection	Over Load	$\geq 110\%$ Constant current mode, recovers automatically after fault condition is removed
	Over temperature	Shell surface temperature $100^{\circ}\text{C} \pm 10^{\circ}\text{C}$ shut down o/p voltage, automatically recover after cooling
Environment	Working TEMP.	$-40 \sim +60^{\circ}\text{C}$ (see below derating curve)
	Working Humidity	20 - 95%RH non-condensing
	Storage TEM., Humidity	$-40 - +80^{\circ}\text{C}$, 10 - 95% RH non-condensing
	TEMP. coefficient	$\pm 0.03\%/^{\circ}\text{C}$ (0 - 50°C)
	Vibration	10~500Hz, 2G 12min./1 cycle, period for 72 min. each along X,Y,Z axes
Safety & EMC	Safety standards	UL8750 CAN/CSA-C22.2 No.250.13 (US)
	Withstand voltage	I/P-O/P: 1.8KVAC I/P-F/G: 1.8KVAC O/P-F/G: 0.5KVAC (US)
	Isolation resistance	I/P-O/P: 100M Ω / 500VDC / 25°C / 70% RH
	EMC Immunity	FCC/ICES do not request this test (US)
	EMC Emission	FCC Part15 Subpart B ANSI C63.4:2014 (US)
Others	Net Weight	0.27KG
	Dimension	105*54*52mm / 4.134"x2.126"x2.047" (Inch)
	Packing	
Notes	- All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25°C of ambient temperature. - Tolerance: includes set up tolerance and load regulation.	

Derating Curve (Output power VS Ambient TEMP)



- To extend their life, please refer to the Derating Curve and derate according to the temperature.
- The output current of the LED driver should be selected according to the rated current of the lamp and the ambient temperature.

Normally, we recommend the power supply to reserve a certain amount of load to extend LED driver's life.



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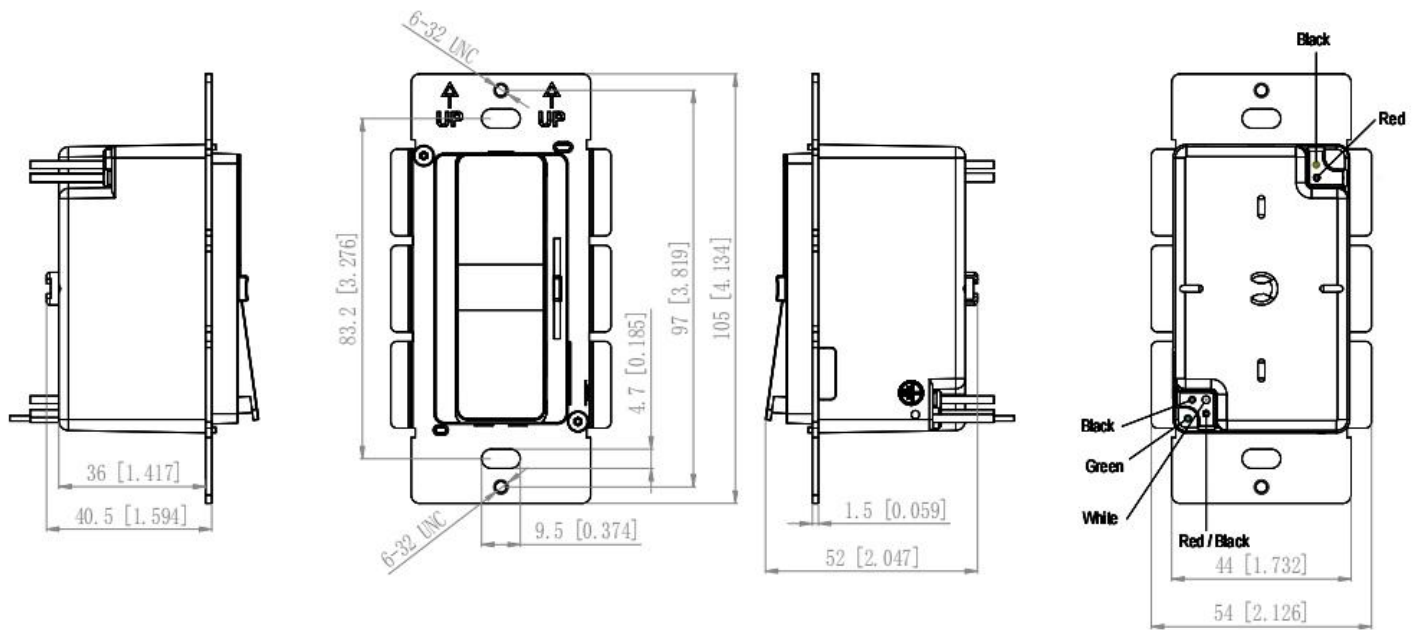
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Mechanical Specification



American Wire Gauge	
Input wires	Black cable (L), Red black cable (L1), White cable (N) and Green cable (FG) (4*18AWG)
Output wires	Red cable (V+), Blue cable (V-) (12V:2*16AWG, 24V/48V:2*18AWG)

Warm tips:

1. Any other requests for, we can customize.
2. Please ensure that the connection is correct.



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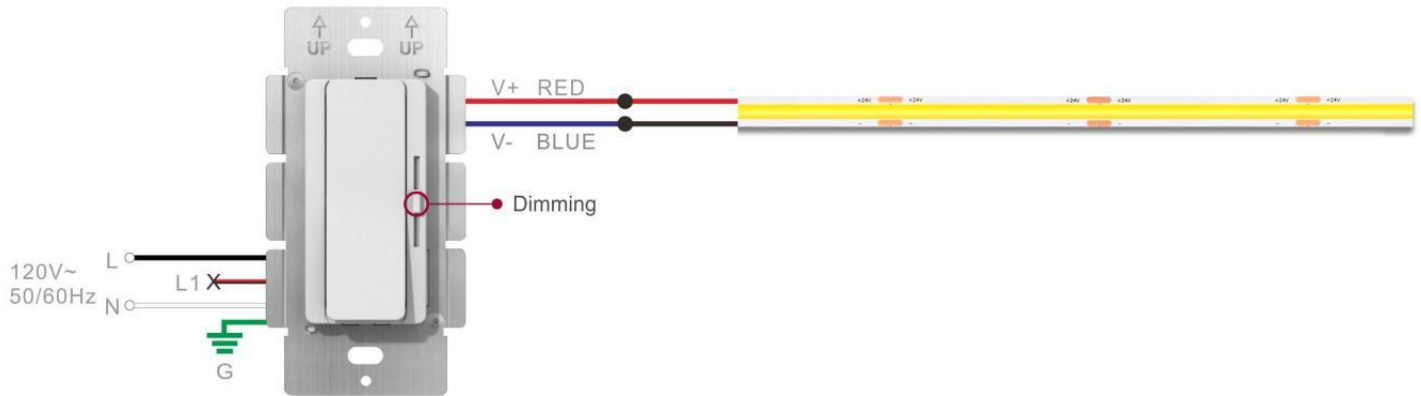
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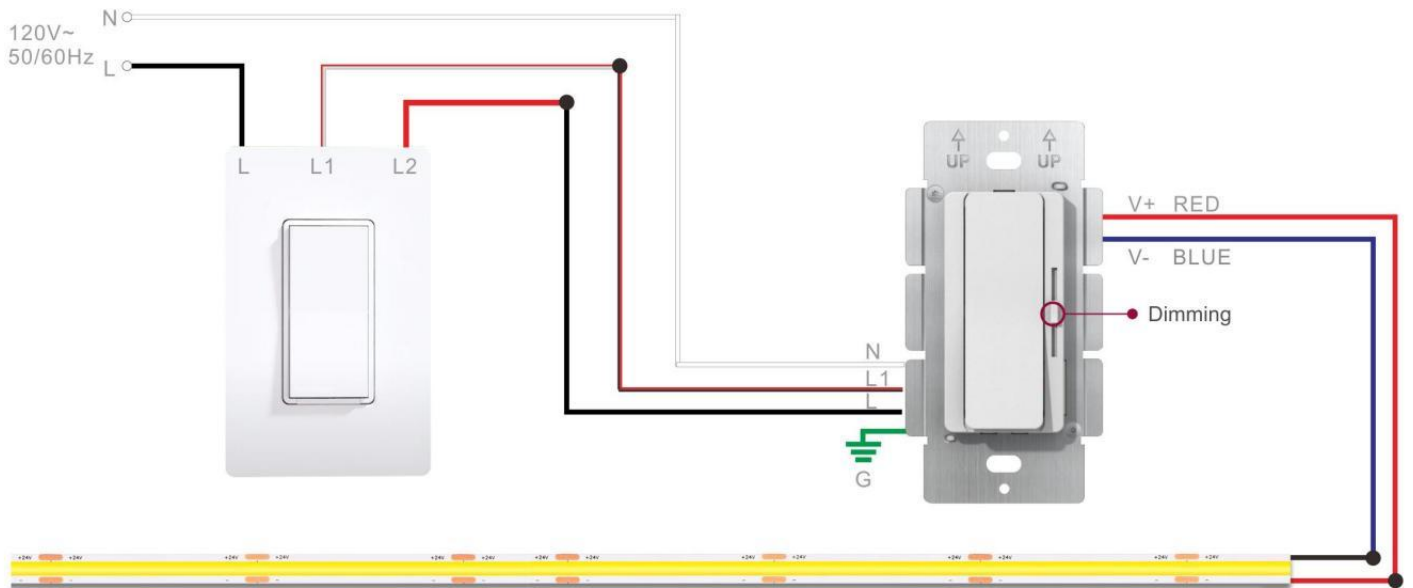
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Connecting Diagram

① For standard dimming system



② For 3-way dimming system



Note: Dimmer's panel is not replaceable.



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Knob to adjust the voltage

Clockwise rotation of the high voltage



MANUAL VOLTAGE TUNING
(+/-2V) FOR OUTPUT OPTIMIZATION

24V output volt.: 24-26V

48V output volt.: 48-50V

Instructions

1. This driver+dimmer 2 in 1 should be installed by qualified and professional person.
2. Please make sure the driver+dimmer 2 in 1 is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that connection is correct to avoid LED light or driver+dimmer 2 in 1 be damaged.
4. If the driver+dimmer 2 in 1 cannot work normally, don't maintain privately.

Have any questions, please contact us