

**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+ Switch 2 in 1    Constant Voltage Non-Dimmabl 120W    160W**

## 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) ON/OFF Switch 3) 3-Way switches 4) Eliminated compatibility issues between drivers and switches
Application:	Suitable for the application of LED lighting
Warranty:	5 years warranty

## Specification



Model		OTM-BD120-12-N	OTM-BD160-24-N	OTM-BD160-48-N
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		
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed		
	Over Load	≥110% Constant current mode, recovers automatically after fault condition is removed		
	Over temperature	Shell surface temperature 100°C±10°C shut down o/p voltage, automatically		



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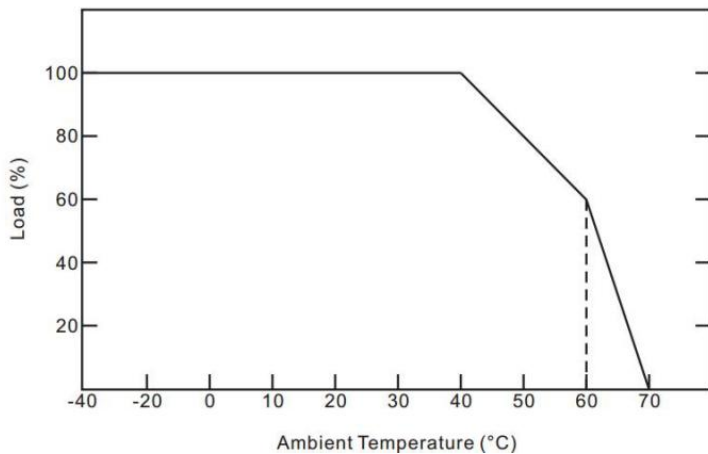
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		recover after cooling
<b>Environment</b>	Working TEMP.	-40~+60°C (see below derating curve)
	Working Humidity	20 - 95%RH non-condensing
	Storage TEM., Humidity	-40 - +80°C, 10 - 95% RH non-condensing
	TEMP. coefficient	±0.03%/°C (0 - 50°C)
	Vibration	10~500Hz, 2G 12min./1 cycle, period for 72 min. each along X,Y,Z axes
<b>Safety &amp; EMC</b>	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: 100MΩ / 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)
<b>Others</b>	Net Weight	0.27KG
	Dimension	105*54*52mm / 4.134"x2.126"x2.047" (Inch)
	Packing	
<b>Notes</b>	<ol style="list-style-type: none"><li>1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25°C of ambient temperature.</li><li>2. Tolerance: includes set up tolerance and load regulation.</li></ol>	

### Derating Curve (Output power VS Ambient TEMP)



1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. 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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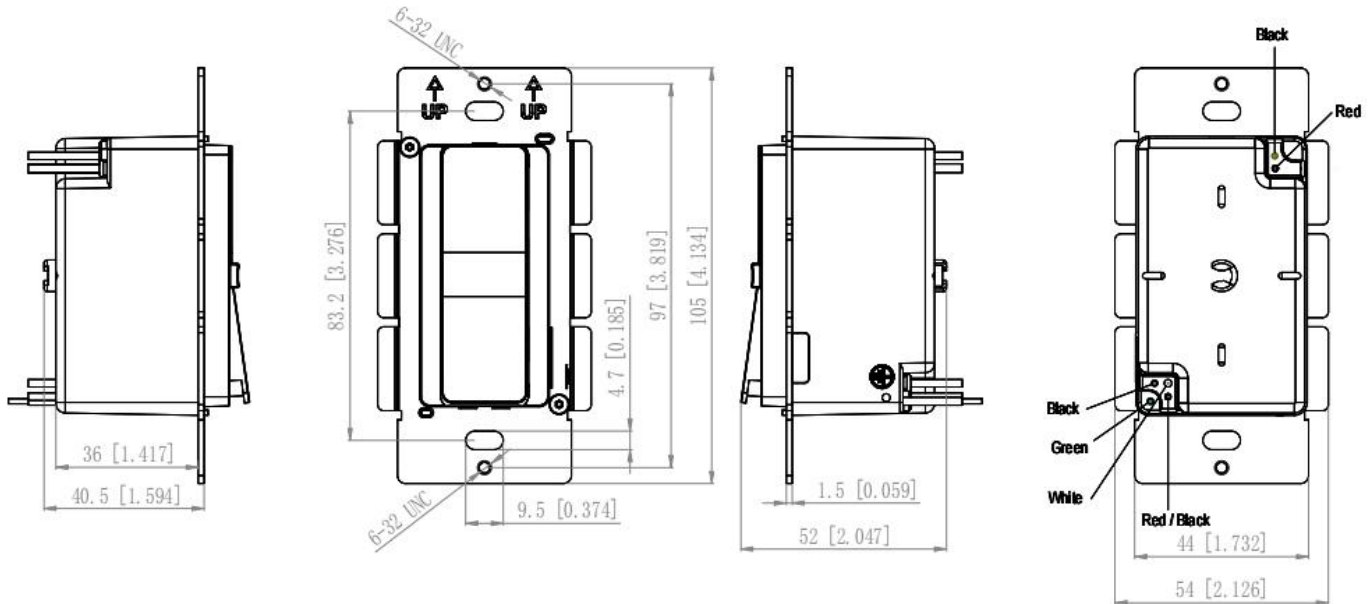
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### Mechanical Specification



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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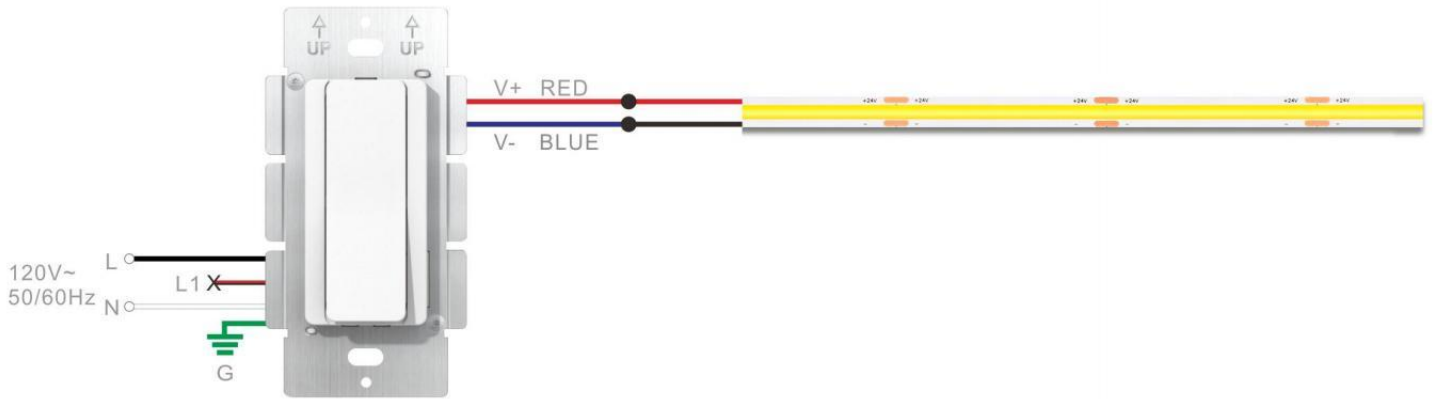
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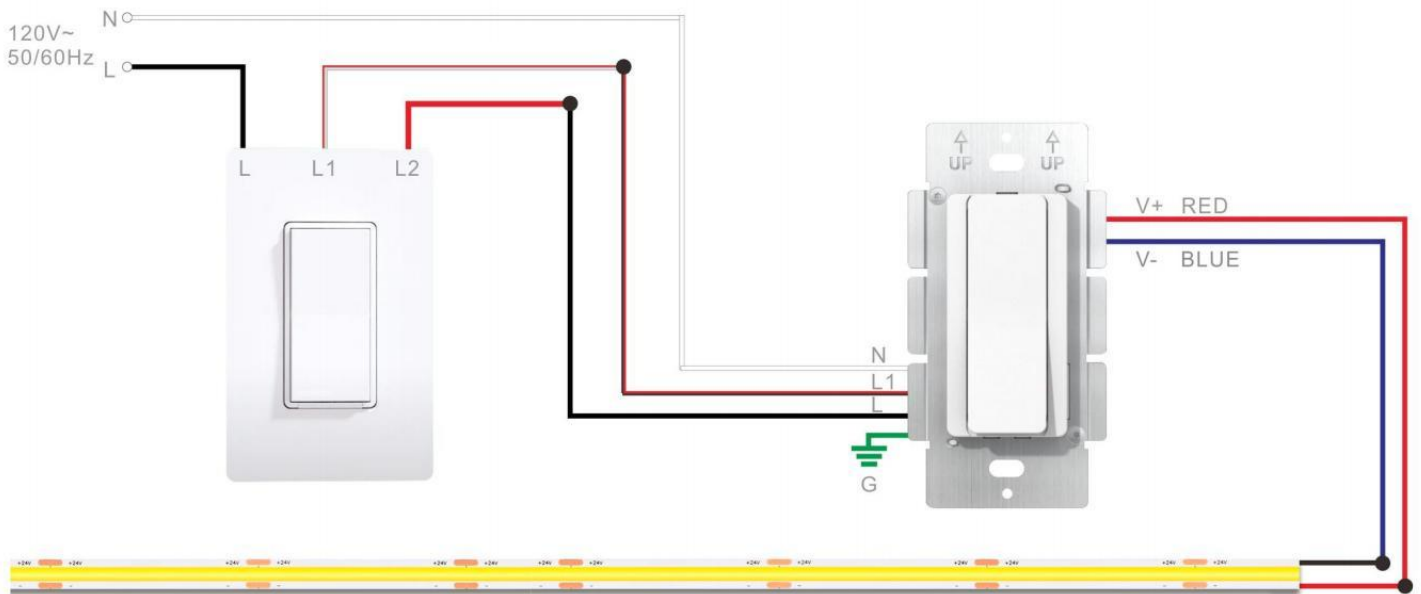
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### Connecting Diagram

#### ① For standard system



#### ② For 3-way system



**Note:** Dimmer' s panel is not replaceable.



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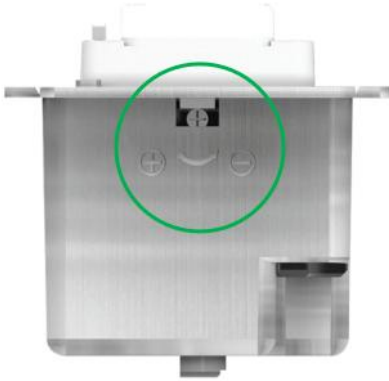
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### Knob to adjust the voltage

Clockwise rotation of the high voltage



MANUAL VOLTAGE TUNING

(+/-2V) FOR OUTPUT OPTIMIZATION

### Instructions

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

Have any questions, please contact us