



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 Constant voltage CCT series 100W PWM output

Features

 <p>Class P SELV Class 2</p>	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 switch 3) 3-Way switches 4) Dimming and color temperature adjustment function. 5) 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-BD100-24-CCT	OTM-BD100-48-CCT
Certificate		UL / cUL / FCC / Class P / SELV / RoHS / Reach	
Output	DC Rate Voltage	24V (24V-26V adjust by knob)	48V (48V-50V adjust by knob)
	Voltage Tolerance	±0.5V	
	Load Regulation	≤1%	≤1%
	Line Regulation	≤0.5%	
	Rated current	4.17A	2.08A
	Rated power	100W	100W
Input	Voltage Range	120VAC	
	Frequency Range	60Hz	
	Power Factor @ full load	≥0.99	
	THD(Typ.) @ full load	≤10%	
	Efficiency @ full load	91.0%	92.0%
	AC Current (Max.)	0.93A	0.93A



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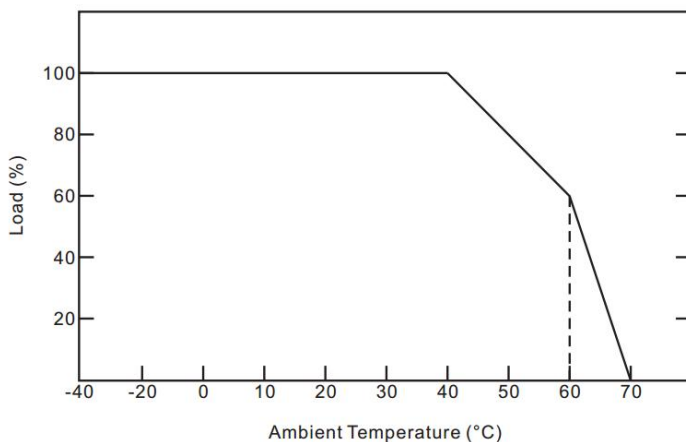
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	Inrush Current (Typ.)	50A, 150us@50% Ipeak
	Leakage current	<0.5mA
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed
	Over Load	≥110% Constant current mode, recovers automatically after fault condition is removed
	Over temperature	Shell surface temperature 100°C±10°C shut down o/p voltage, automatically recover after cooling
Environment	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
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: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)
Others	Net Weight	0.25KG
	Dimension	105*54*51mm / 4.134"x2.126"x1.996" (Inch)
	Packing	
Notes	1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25°C of ambient temperature. 2. 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.



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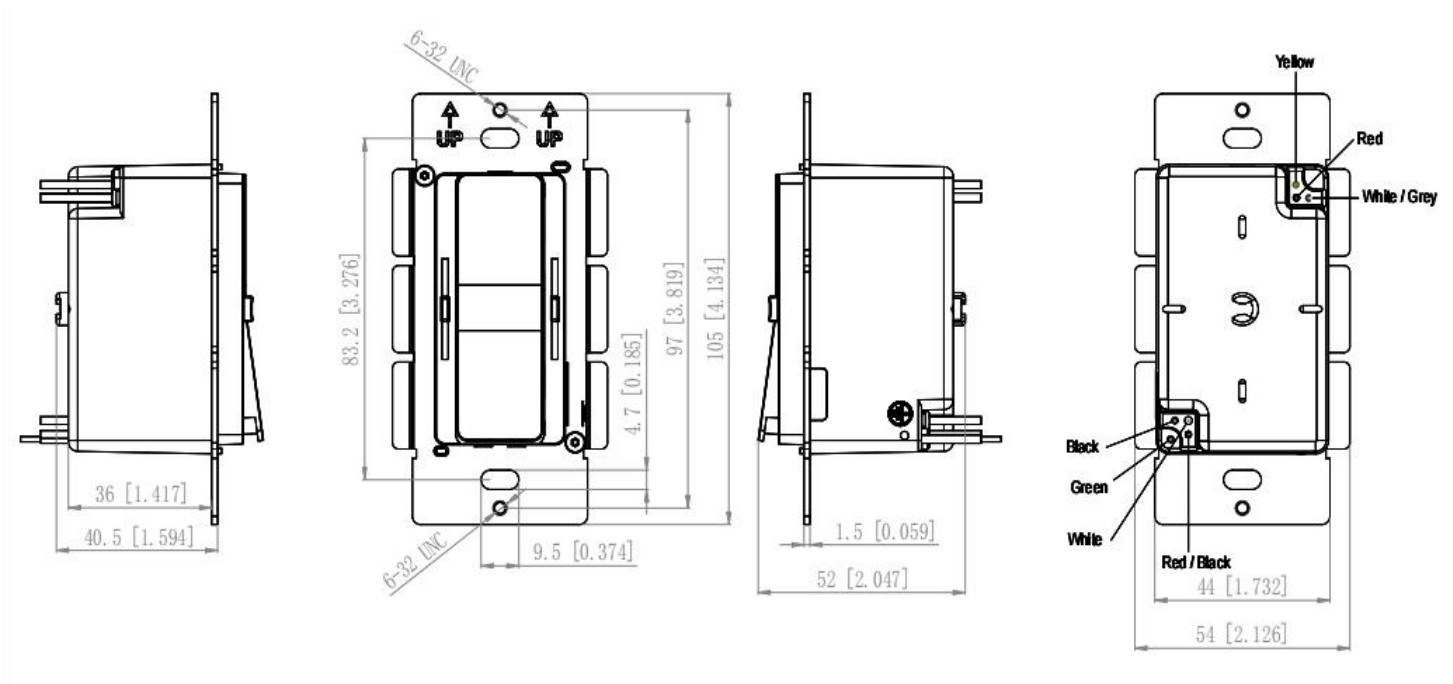
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Normally, we recommend the power supply to reserve a certain amount of load to extend LED driver's life.

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+), White/Gray cable (CW-), Yellow cable (WW-) (3*18AWG)

Warm tips :

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



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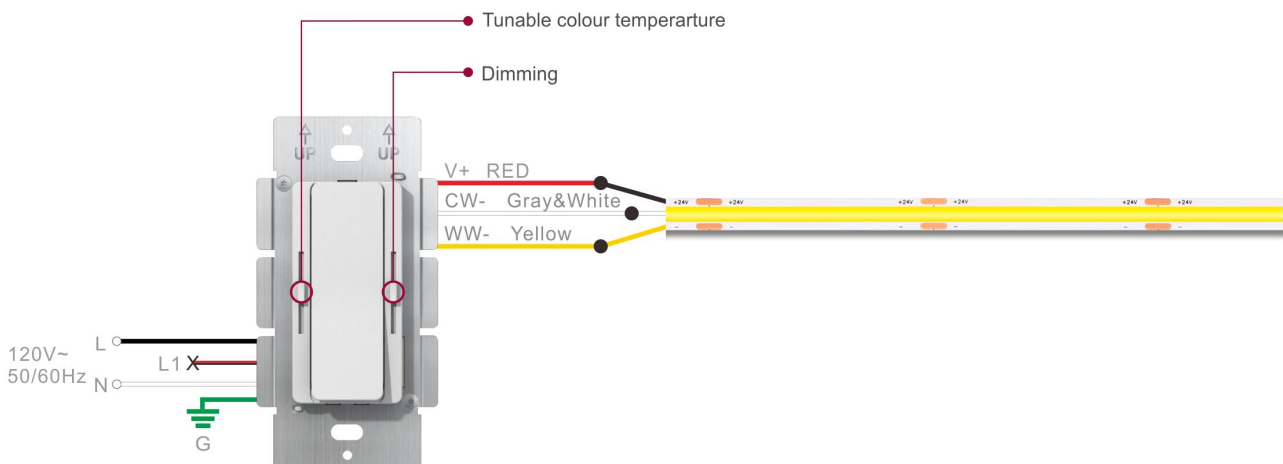
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Connecting Diagram

① For standard dimming system



② For 3-way dimming system



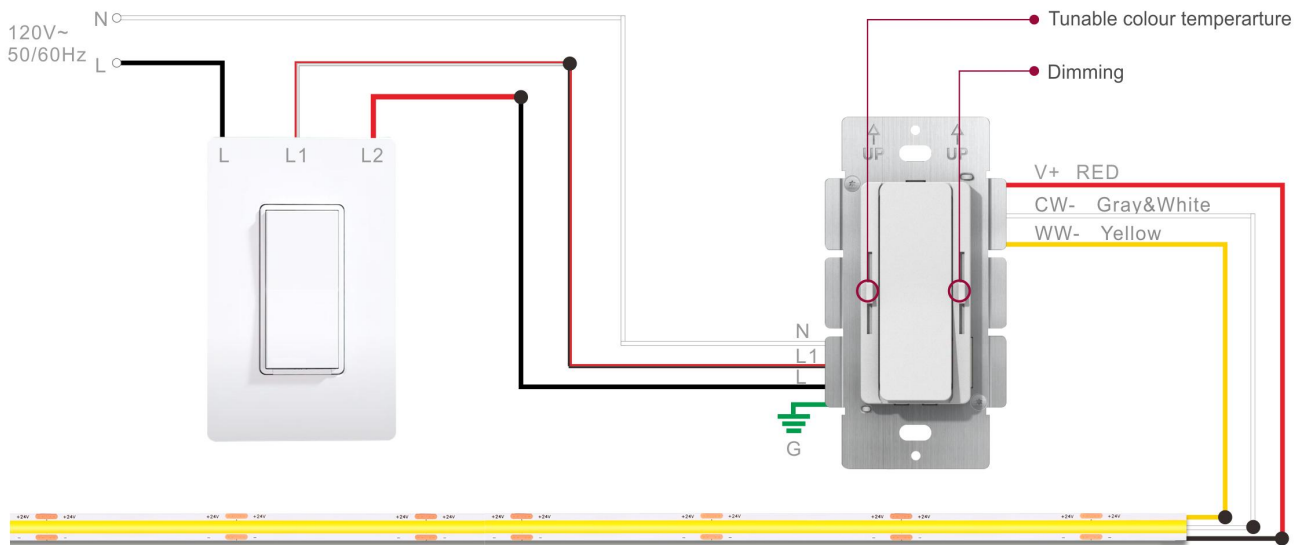
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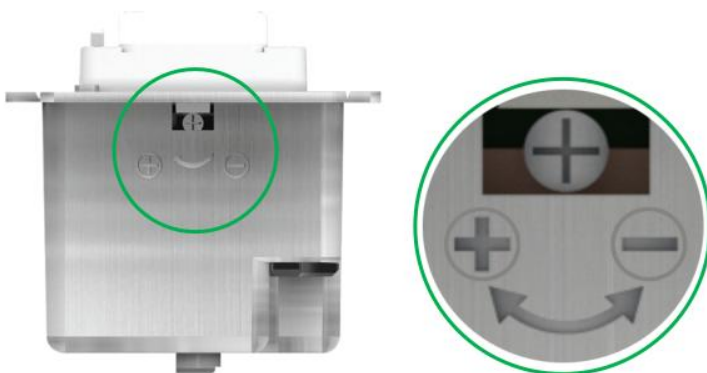
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Note: Dimmer' s panel is not replaceable.

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



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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 with us