

EDD-DC-CCT series

Whole Family: EDDxxx-xxDC-CCT DC- (xx=12V 24V 48V) [60W 96W 100W 120W 160W]



Class P

SELV

RoHS



The driver is inside

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 Voltage slightly 2) Preset dimmer with on/off function 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
Panel Color Available:	White Light Almond Black

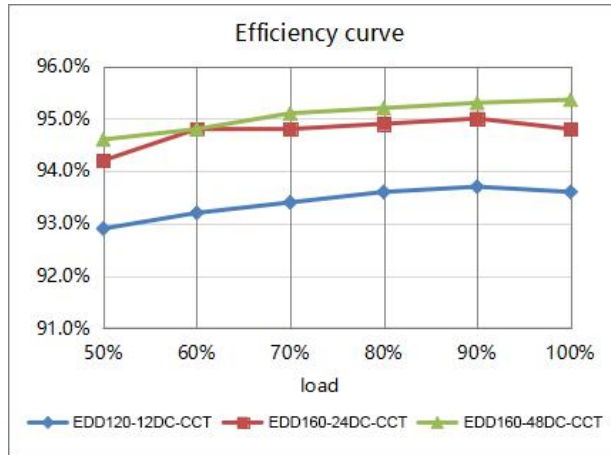
Driver + Dimmer 2 in 1 Constant Voltage EDD-DC-CCT series 120W 160W PWM output

Specification

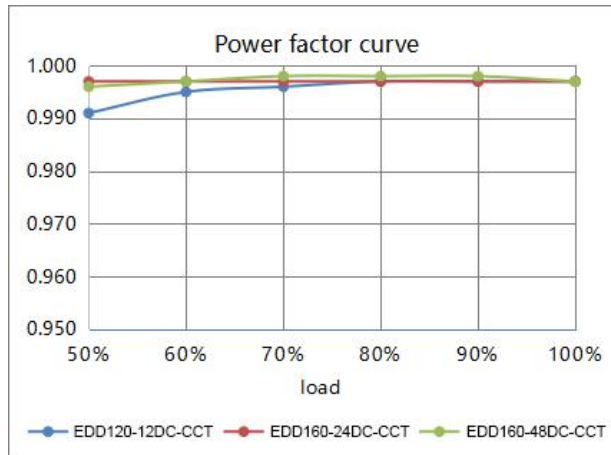
Model		EDD120-12DC-CCT		EDD160-24DC-CCT		EDD160-48DC-CCT	
Certificate		UL / cUL / FCC / Class P / SELV / RoHS / Reach					
Output	DC Rate Voltage	12V (12V-13.5V adjust by knob)		24V (24V-26V adjust by knob)		48V (48V-50V adjust by knob)	
	Voltage Tolerance	±0.5V					
	Load Regulation	≤2%		≤1%		≤1%	
	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℃±10℃ shut down o/p voltage, automatically recover after cooling					
Environment	Working TEMP.	-40~+60℃ (see below derating curve)					
	Working Humidity	20 - 95%RH non-condensing					
	Storage TEM.,Humidity	-40 - +80℃,10 - 95% RH non-condensing					
	TEMP.coefficient	±0.03%/℃(0 - 50℃)					
	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 9 (US)					
	Withstand voltage	I/P-O/P:1.88KVAC I/P-F/G:1.88KVAC O/P-F/G:0.5KVAC (US)					
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25℃ / 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	1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25℃of ambient temperature. 2. Tolerance: includes set up tolerance and load regulation.						

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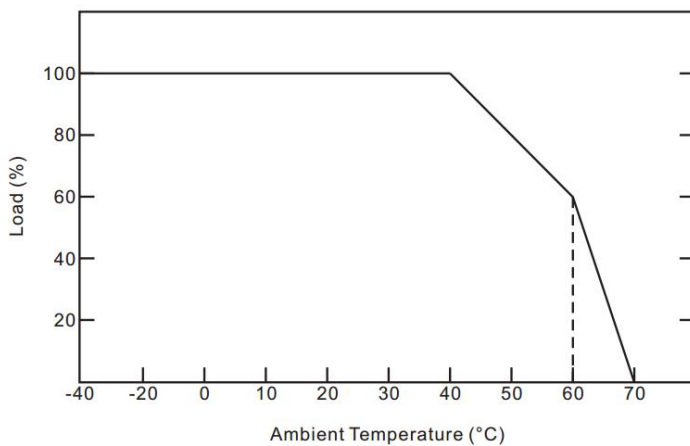
Efficiency Curve (efficiency vs output load)



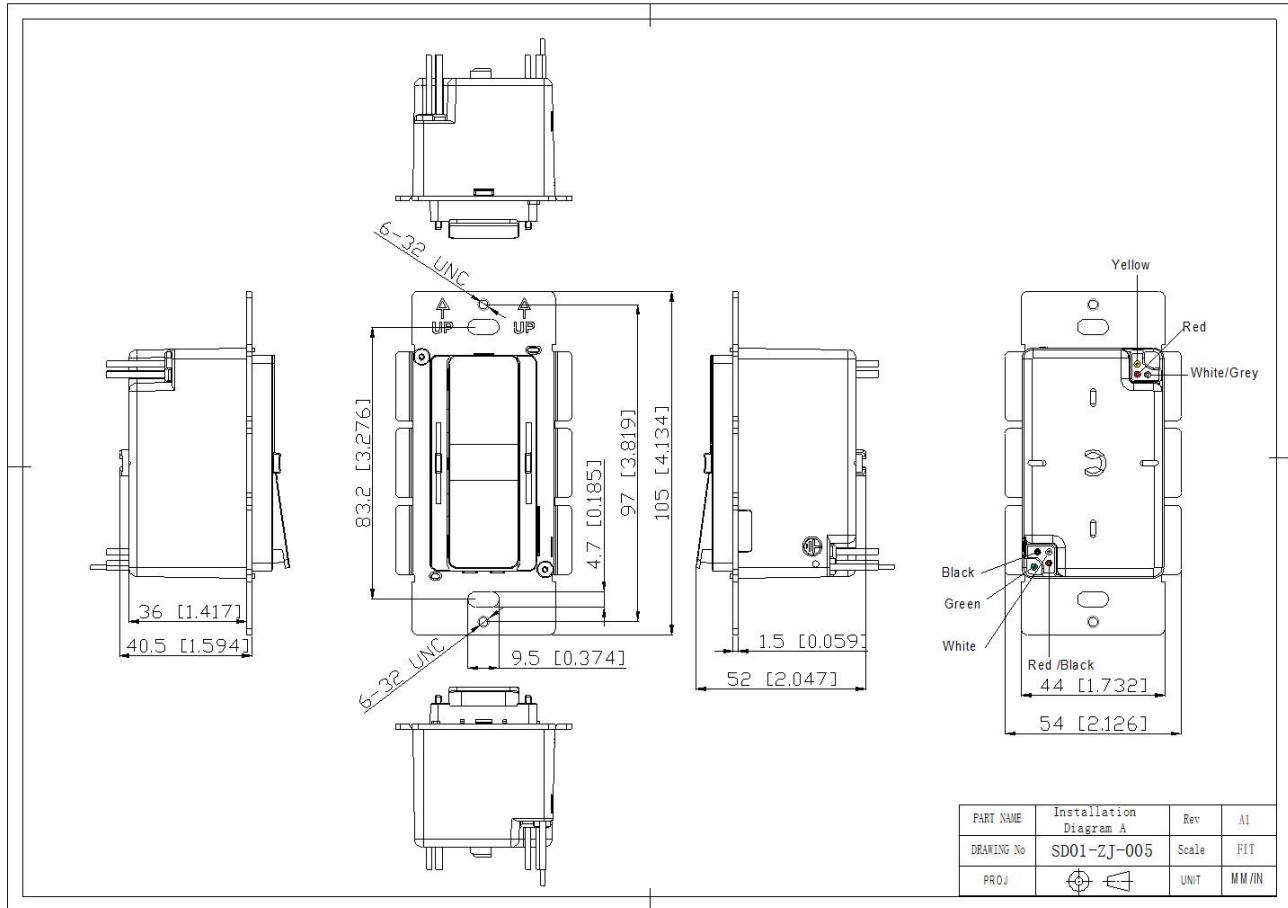
Power factor curve



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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Mechanical Specification


American Wire Gauge SD01	
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-) (12V:3*16AWG, 24V/48V:3*18AWG)

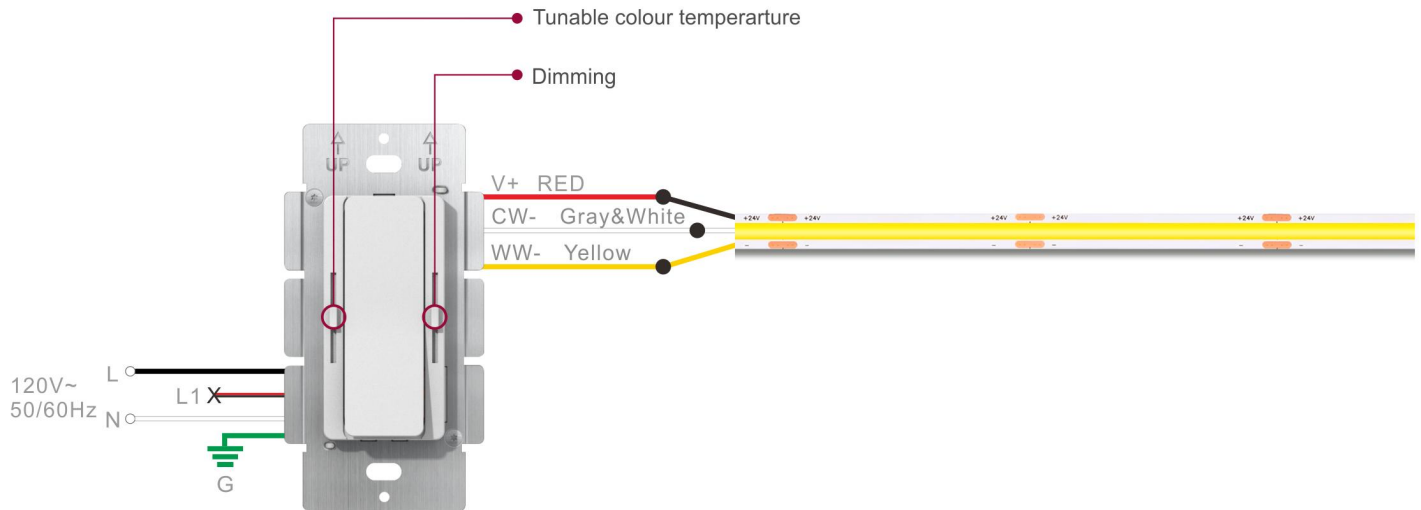
Warm tips:

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

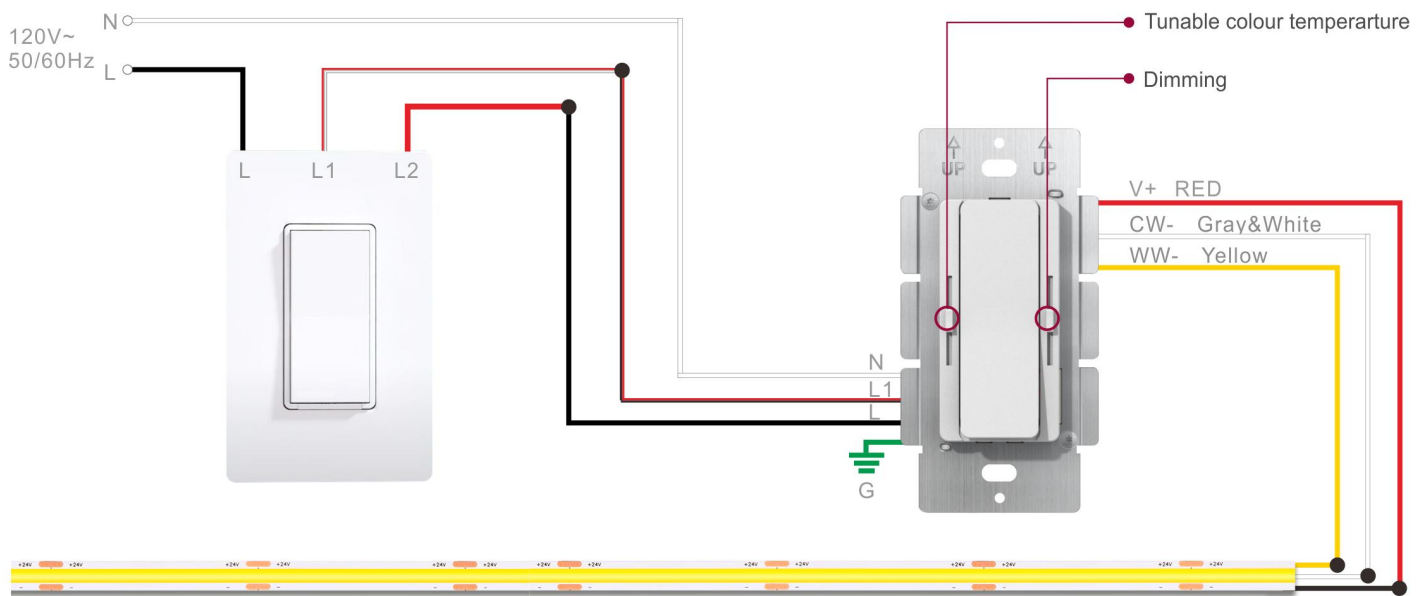
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Connecting Diagram

- EDD-DC-CCT model for standard dimming system



- EDD-DC-CCT model for 3-way dimming system

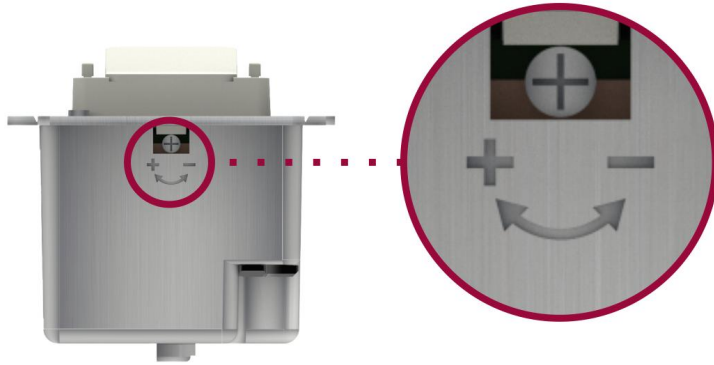


Note: Dimmer's panel is not replaceable.

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Knob to adjust the voltage

- Clockwise rotation of the high voltage

**Output Volt. Adjustment**

12V output volt. : 12-13.5V

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 with EMCOD.

Please visit our website or contact us for more information! www.emcod.com