

SDD-DIM series

Whole Family: SDD-xx060-DIM DC- (xx= 12V 24V 48V) [60W 96W 100W 120W 160W]



Class 2

Class P

SELV

RoHS



The driver is inside

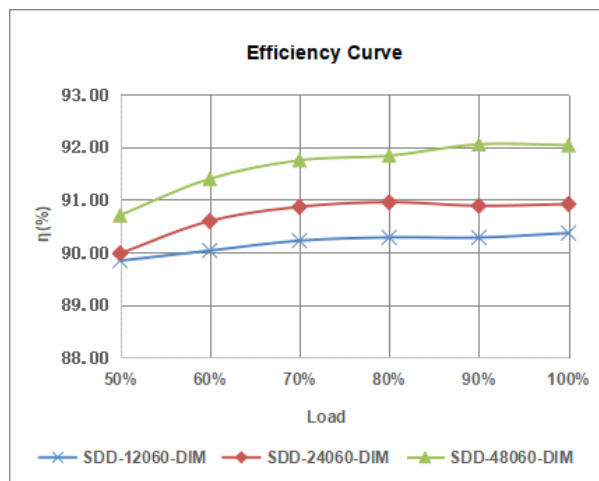
Features

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 output voltage can be adjusted slightly 2) Preset dimmer with on/off switch 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

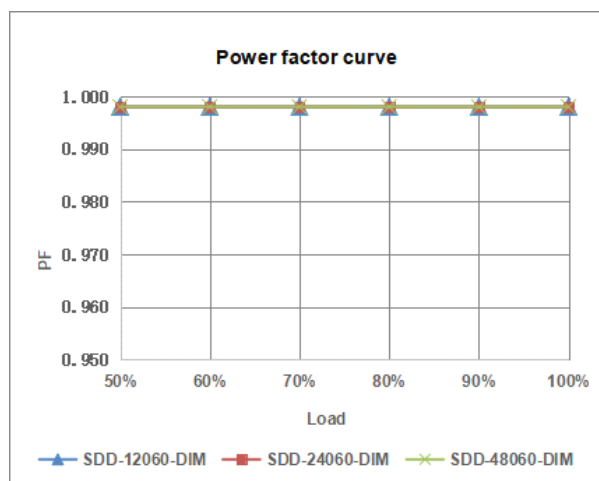
Specification

M o d e l		SDD-12060-D M	SDD-24060-D M	SDD-48060-D M
Certificate		UL / cUL / FCC / C l a s s P / SELV / RoHS / Reach		
Output	DC Rate Voltage	12V (12V-13.5V ad j u s t by knob)	24V (24V-26V ad j u s t by knob)	48V (48V-50V ad j u s t by knob)
	Voltage Tolerance	±0.5V		
	Load Regulation	≤2%	≤1%	≤1%
	Line Regulation	≤0.5%		
	Rated current	5A	2.5A	1.25A
	Rated power	60W	60W	60W
Input	Voltage Range	120VAC		
	Frequency Range	60H z		
	PowerFactor@ full load	0.99		
	THD (Typ.)@ full load	≤10%		
	Efficiency @ full load	90.0%	91.0%	92.0%
	AC Current (M ax.)	0.6A	0.6A	0.6A
	Inrush Current (Typ.)	50A, 150us@ 50% Ipeak		
	Leakage current	< 0.5m A		
Protection	ShortCircuit	Hiccup m ode, recovers autom atically after fault cond ition is rem oved		
	OverLoad	≥110% Constant current m ode, recovers autom atically after fault cond ition is rem oved		
	Over tem perature	Shell surface tem perature 100℃ ±10℃ shut down o/p voltage, autom atically recover after cooling		
Environm ent	W orking TEM P.	-40~+60℃ (see below derating curve)		
	W orking Hum idity	20 - 95% RH non-condensing		
	Storage TEM .,Hum idity	-40 - +80℃,10 - 95% RH non-condensing		
	TEM P.coefficient	±0.03% /℃ (0 - 50℃)		
	Vibration	10~500H z, 2G 12m in./1 cycle, period for 72 m in. each along X,Y,Z axes		
Safety & EM C	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)		
	Iso lation resistance	I/P-O /P:100M Ω / 500VDC / 25℃ / 70% RH		
	EM C Im m unity	FCC/CES do not request this test (US)		
	EM C Em ission	FCC Part15 Subpart B ANSIC63.4 2014 (US)		
O thers	NetW eight	0.25KG		
	D im ension	105*54*51m m / 4.134"x2.126"x1.996" (Inch)		
	Packing			
Notes	1. All param eters NO T specially m entioned are m easured at 120VAC input, rated load and 25℃ of am bient tem perature. 2. Tolerance: includes set up tolerance and load regulation .			

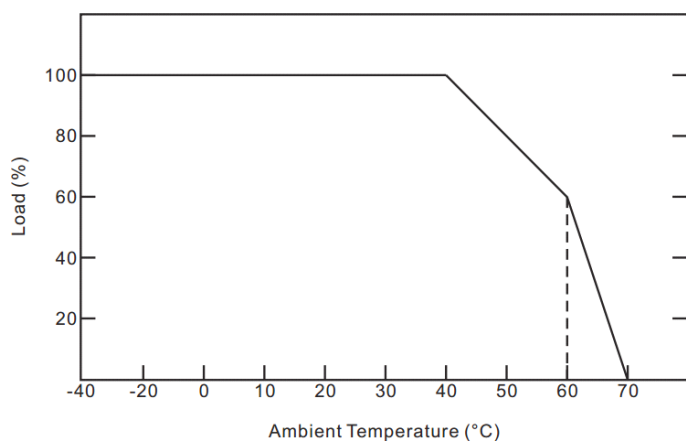
Efficiency Curve (efficiency vs output load)



Power factor curve

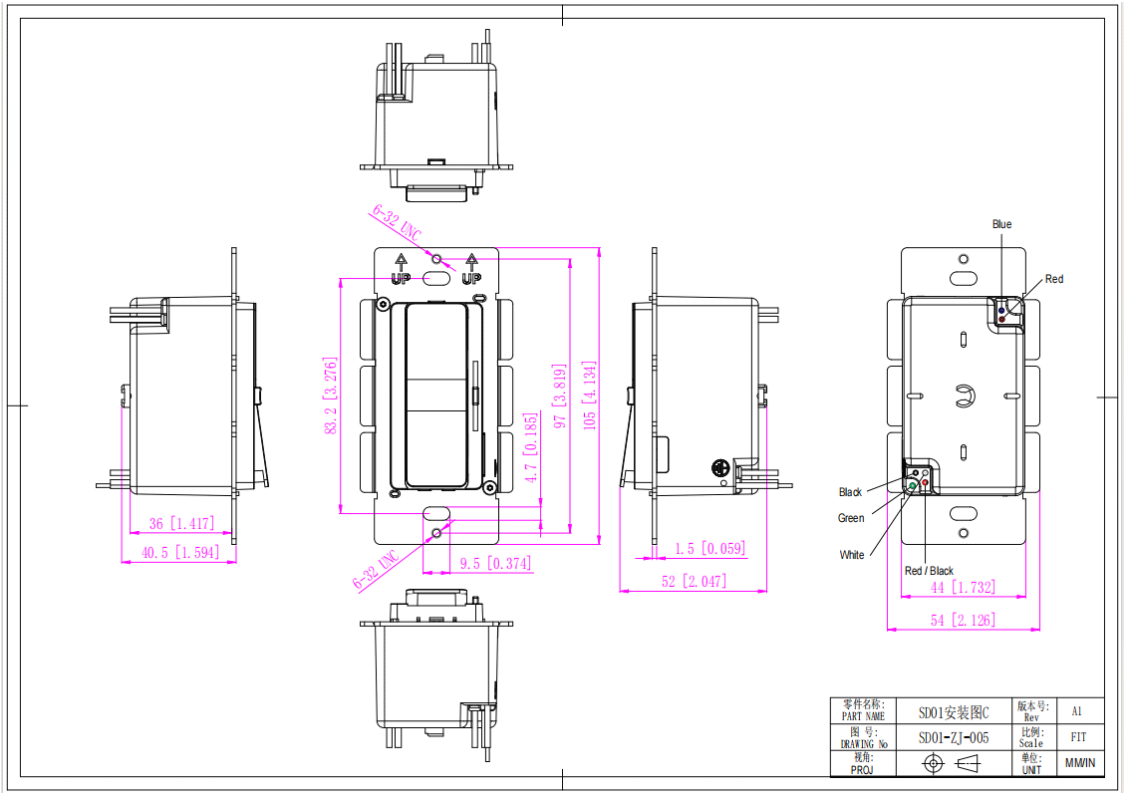


Derating Curve (Output power VS Ambient TEM P)



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 .

M echanicalSpecification



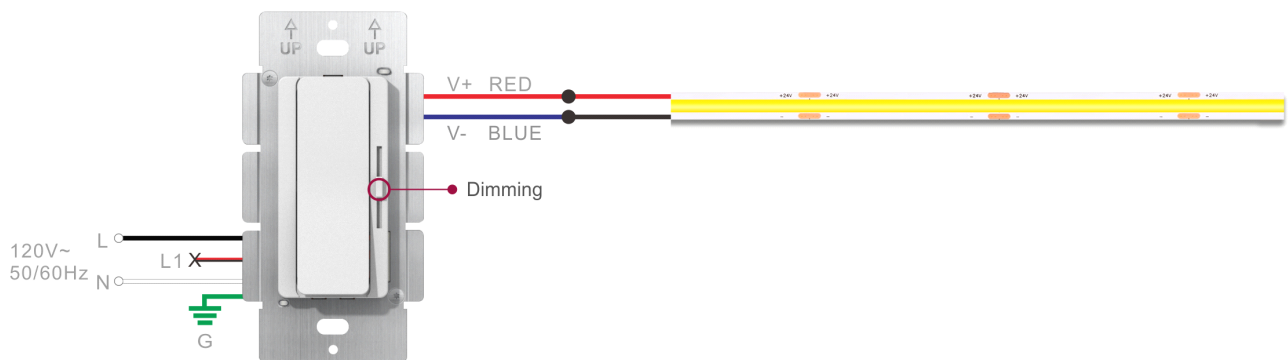
Am erican W ire Gauge SD01	
Input wires	Black cable (L), Red black cable (L1), White cable (N) and Green cable (FG) (4*18AWG)
Output wires	Red cable (V+), Blue cable (V-) (2*18AWG)

W arm tips:

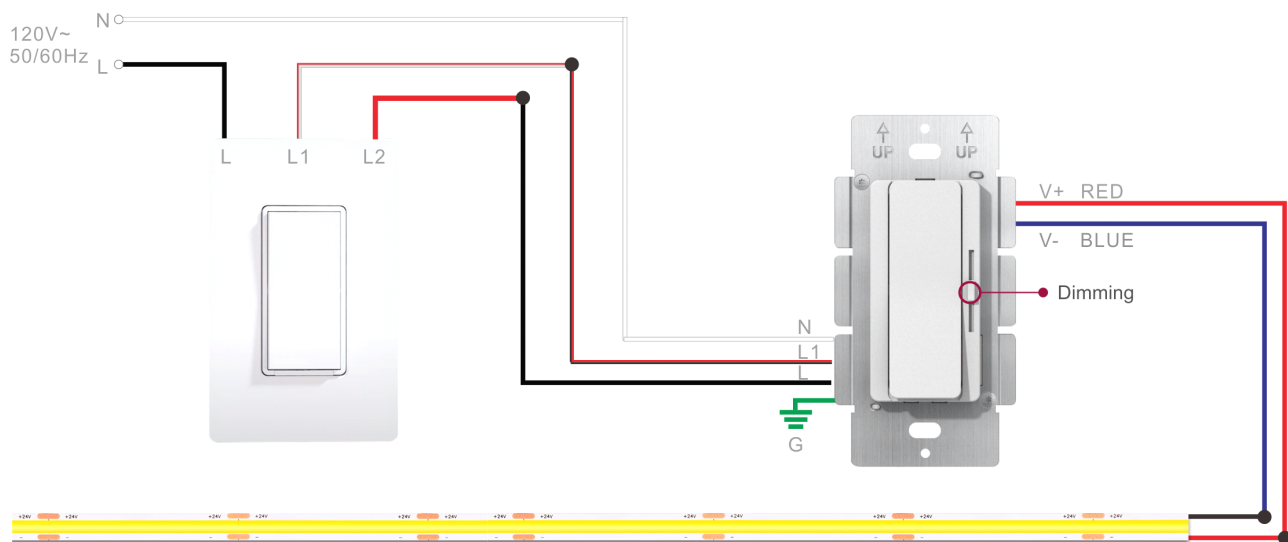
1. Any other requests, we can custom ize.
2. Please ensure that the connection is correct.

Connecting Diagram

① SDD-DIM model for standard dimming system



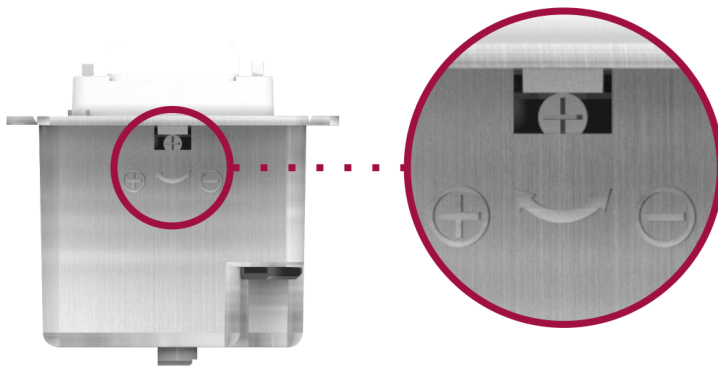
② SDD-DIM model for 3-way dimming system



Note: Dimmer's panel is not replaceable.

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.

