



Driver+ Dimmer 2 in 1 Constant Voltage SDD-DIM series for 1CH Dimming PWM output

## SDD-DIM series



### 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:	<ol style="list-style-type: none"> <li>1) Fine-tune output voltage can be adjusted slightly</li> <li>2) Preset dimmer with on/off switch</li> <li>3) 3-Way switches</li> <li>4) Eliminated compatibility issues between drivers and switches</li> </ol>
Dimming range:	0.3%-100%
Application:	Suitable for the application of LED lighting
Warranty:	2 years warranty
Others:	16 KHZ PWM output with dimming curve is a gamma 2.2 curve      Flicker-free



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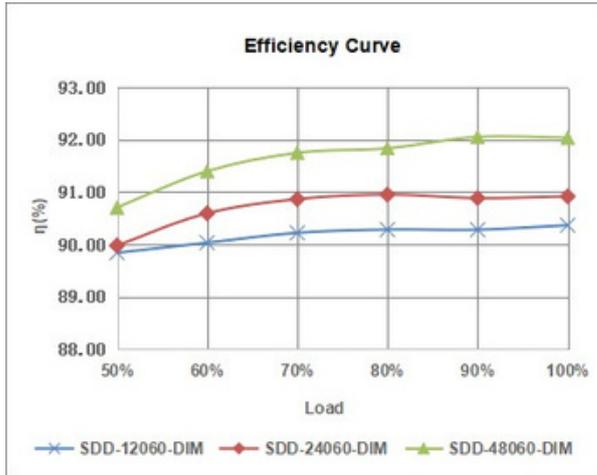
**Specification**

Model		SDD-12060-DIM	SDD-24060-DIM	SDD-48060-DIM
Certificate		UL / cUL / FCC / Class P / SELV / RoHS / Reach		
Output	DC Rate Voltage	12V (12V-13.5Vadjustbyknob)	24V (24V-26Vadjustbyknob)	48V (48V-50Vadjustbyknob)
	VoltageTolerance	±0.5V		
	LoadRegulation	≤2%	≤1%	≤1%
	LineRegulation	≤0.5%		
	Ratedcurrent	5A	2.5A	1.25A
	Ratedpower	60W	60W	60W
Input	VoltageRange	120VAC		
	FrequencyRange	60Hz		
	PowerFactor@fullload	0.99		
	THD(Typ.)@fullload	≤10%		
	Efficiency@fullload	90.0%	91.0%	92.0%
	ACCurrent(Max.)	0.6A	0.6A	0.6A
	InrushCurrent(Typ.)	50A,150us@50%Ipeak		
	Leakagecurrent	<0.5mA		
Protection	ShortCircuit	Hiccupmode,recoversautomaticallyafterfaultconditionisremoved		
	OverLoad	≥110%Hiccupmode,recoversautomaticallyafterfaultconditionisremoved		
	Over temperature	Shellsurfacetemperature100 °C±10°C shutdownno/pvoltage,automaticallyrecoverafter cooling		
Environment	WorkingTEMP.	-40~+50°C(seebetowderatingcurve)		
	WorkingHumidity	20-95%RH non-condensing		
	StorageTEM.,Humidity	-40-+80°C,10-95%RHnon-condensing		
	TEMP.coefficient	±0.03%/°C(0-50°C)		
	Vibration	10~500Hz,2G12min./1cycle,periodfor72min.eachalongX,Y,Zaxes		
Safety & EMC	Safetystandards	UL8750 CAN/CSA-C22.2No.250.13(US)		
	Withstandvoltage	I/P-O/P:1.8KVAC I/P-F/G:1.8KVAC O/P-F/G:0.5KVAC(US)		
	Isolationresistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH		
	EMCImmunity	FCC/ICESdonotrequestthistest(US)		
	EMCEmission	FCCPart15SubpartB ANSIC63.4:2014(US)		
Others	NetWeight	0.25KG		
	Dimension	105*54*51mm/ 4.134"x2.126"x1.996"(Inch)		
	Packing			
Notes	<ol style="list-style-type: none"> <li>AllparametersNOTspeciallymentionedaremeasuredat120VACinput,ratedloadand25ofambienttemperature.</li> <li>Tolerance:includessetuptoleranceandloadregulation.</li> </ol>			

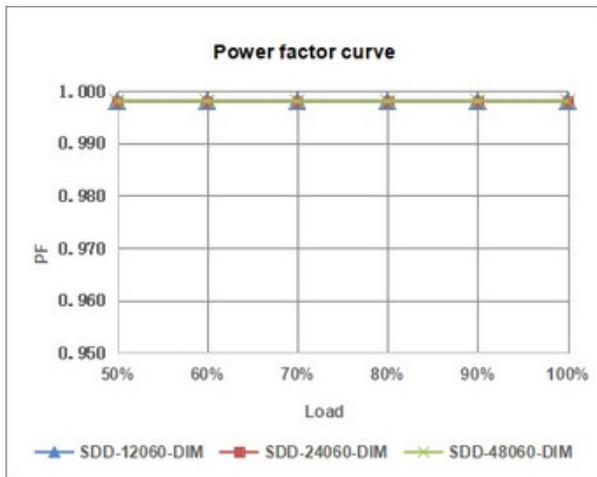


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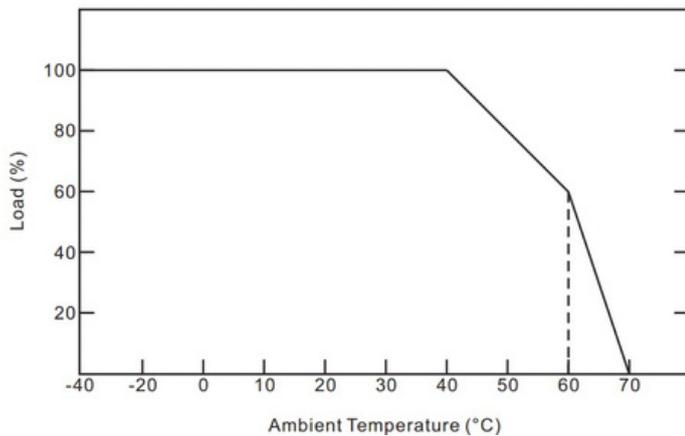
### Efficiency Curve (efficiency vs output load)



### Power factor curve

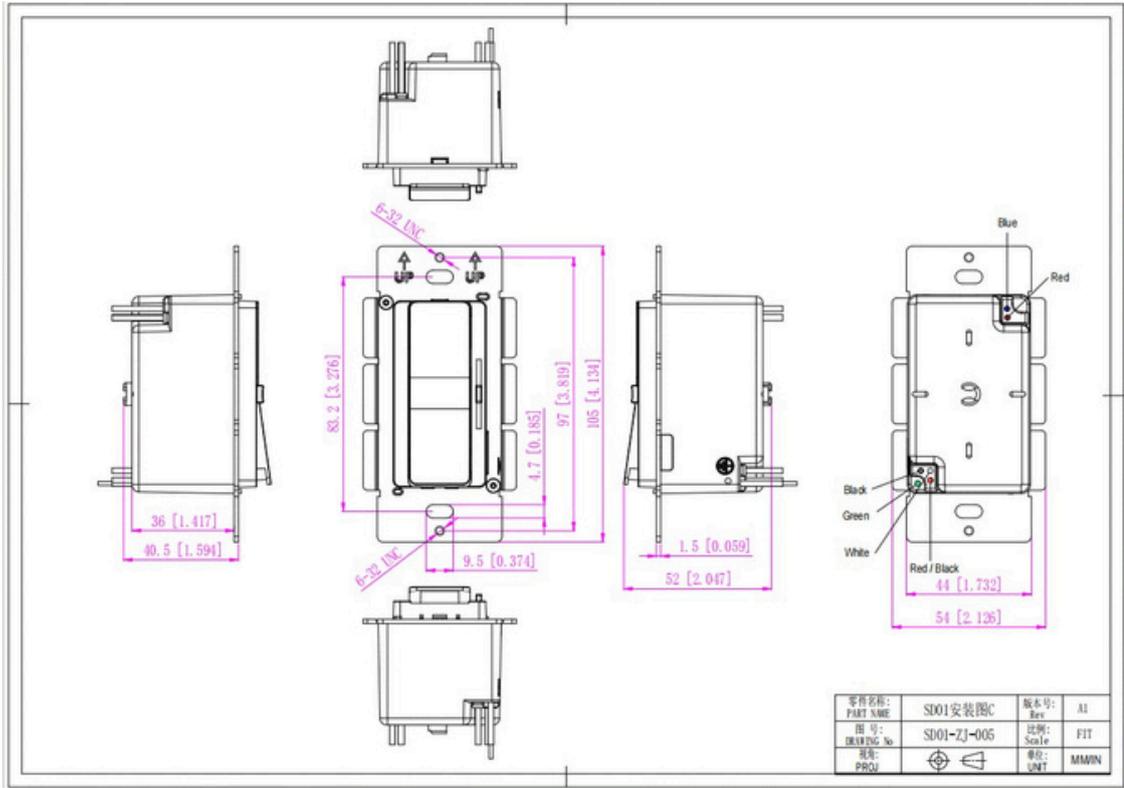


### Derating Curve (Output power VS Ambient TEMP)



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.

**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+), Blue cable (V-) (2*18AWG)

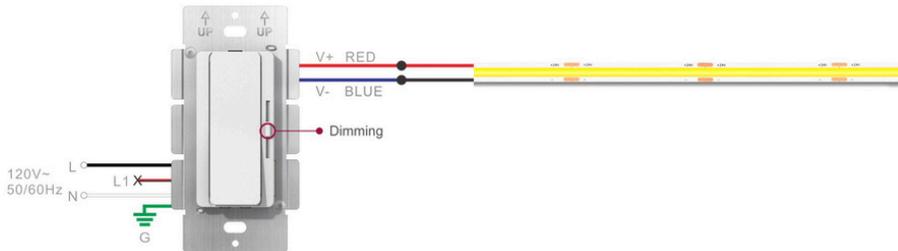
**Warm tips:**

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

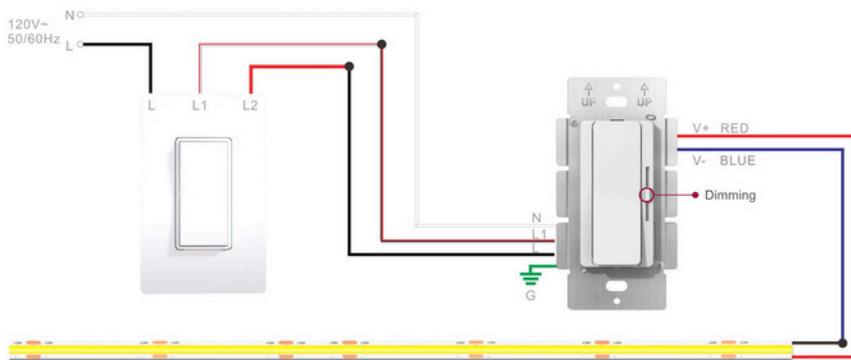
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### Dimming Operation and Connecting Diagram

① Wiring diagram of SDD-DIM model for standard dimming system

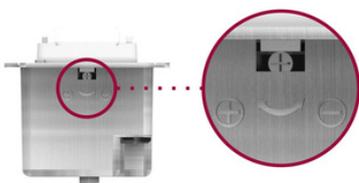


② Wiring diagram of SDD-DIM model for 3-way dimming system



### 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

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