



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-Wayswitches</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:	16KHZ PWM output with dimming curve is a gamma 2.2 curve      Flicker-free



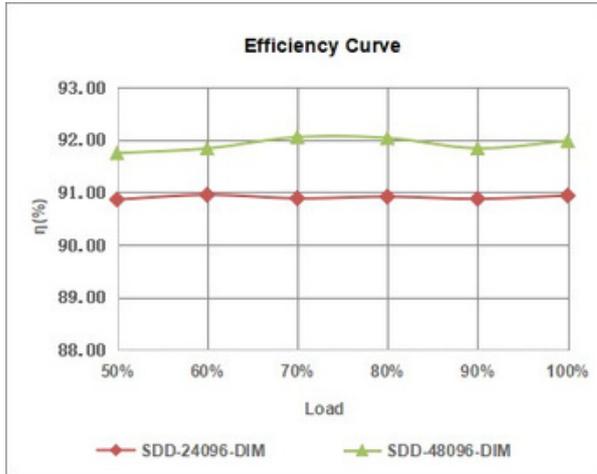
**Driver+ Dimmer 2 in 1 constant voltage SDD-DIM series for 1CH Dimming PWM output**

**Specification**

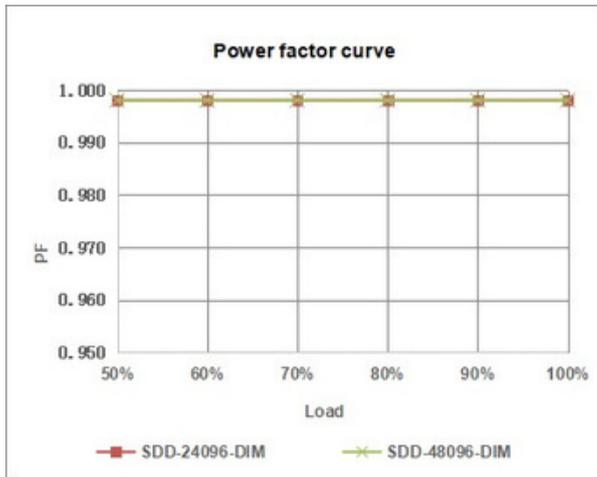
Model		SDD-24096-DIM	SDD-48096-DIM
<b>Certificate</b>		UL / cUL / FCC / Class P / SELV / RoHS / Reach	
<b>Output</b>	DcRateVoltage	24V (24V-26Vadjustbyknob)	48V (48V-50Vadjustbyknob)
	VoltageTolerance	±0.5V	
	LoadRegulation	≤1%	≤1%
	LineRegulation	≤0.5%	
	Ratedcurrent	4A	2A
	Ratedpower	96W	96W
<b>Input</b>	VoltageRange	120VAC	
	FrequencyRange	60Hz	
	PowerFactor@fullload	≥0.99	
	THD(Typ.)@fullload	≤10%	
	Efficiency@fullload	91.0%	92.0%
	ACCurrent(Max.)	0.9A	0.9A
	InrushCurrent(Typ.)	50A,150us@50%Ipeak	
	Leakagecurrent	<0.5mA	
<b>Protection</b>	ShortCircuit	Hiccupmode,recoversautomaticallyafterfaultconditionisremoved	
	OverLoad	≥110%Hiccupmode,recoversautomaticallyafterfaultconditionisremoved	
	Over temperature	Shellsurfacetemperature100 °C±10°C shutdownno/pvoltage,automaticallyrecoverafter cooling	
<b>Environment</b>	WorkingTEMP.	-40~+60°C(see below derating curve)	
	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	
<b>Safety &amp; EMC</b>	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)	
<b>Others</b>	NetWeight	0.25KG	
	Dimension	105*54*51mm/ 4.134"x2.126"x1.996"(Inch)	
	Packing		
<b>Notes</b>	<ol style="list-style-type: none"> <li>AllparametersNOTspeciallymentionedaremeasuredat120VACinput,ratedloadand25ofambienttemperature.</li> <li>Tolerance:includesetuptoleranceandloadregulation.</li> </ol>		



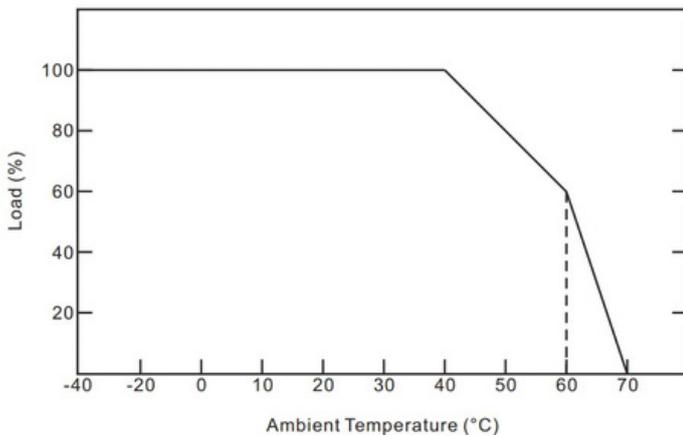
### Efficiency Curve (efficiency vs output load)



### Power factor curve



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

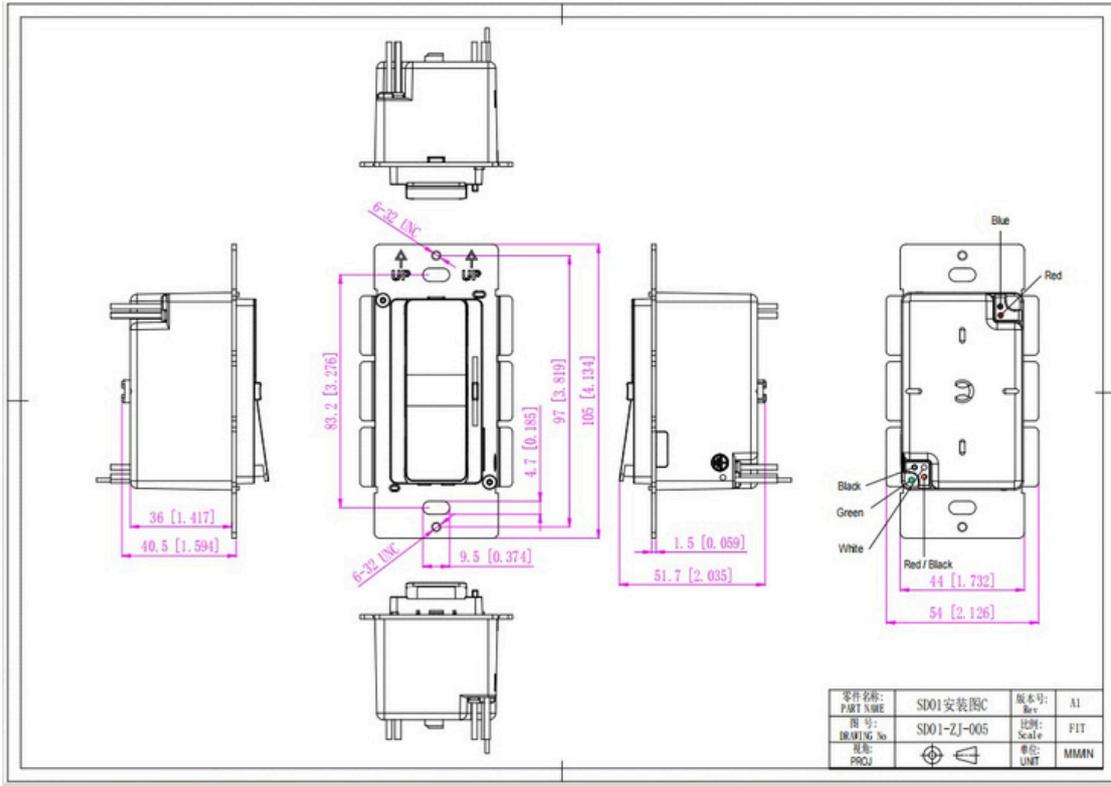


1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. The output current of the LED driver should be selected according to the rated current of the lamp and the ambient temperature.

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:**

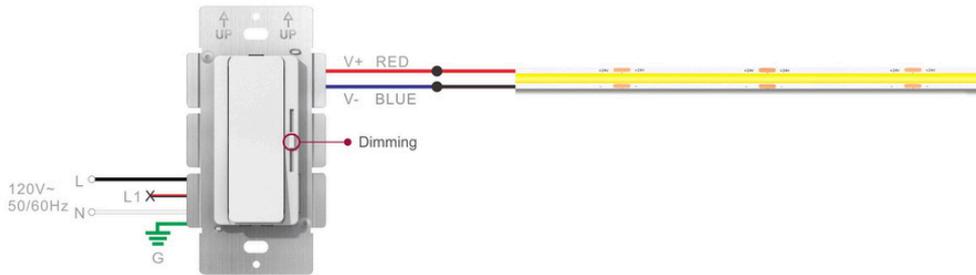
1. Any other requests, we can customize.
2. Please ensure that the connection is correct.



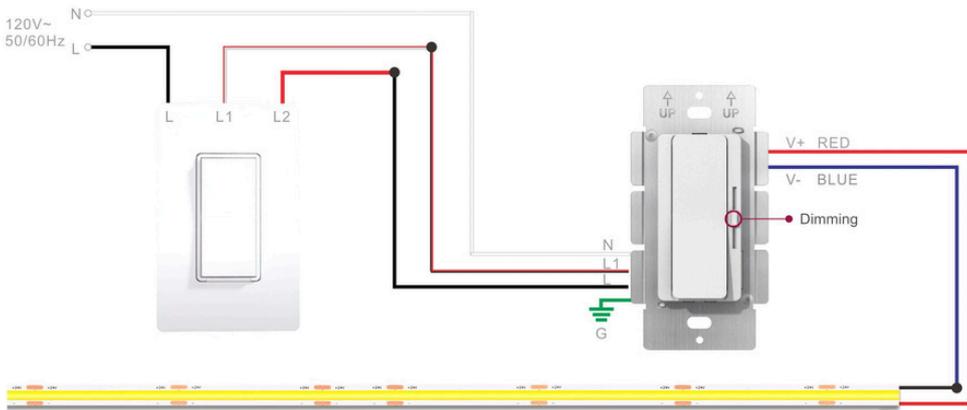
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**Dimming Operation and Connecting Diagram**

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



**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.