

SDD-DIM series

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



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 function 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

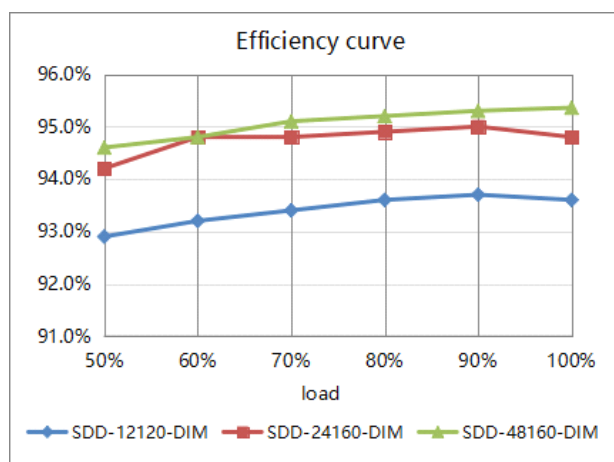
Driver+ Dimmer (2 in 1) LED Constant Voltage Driver SDD-D M series 120W 160W

PWM output

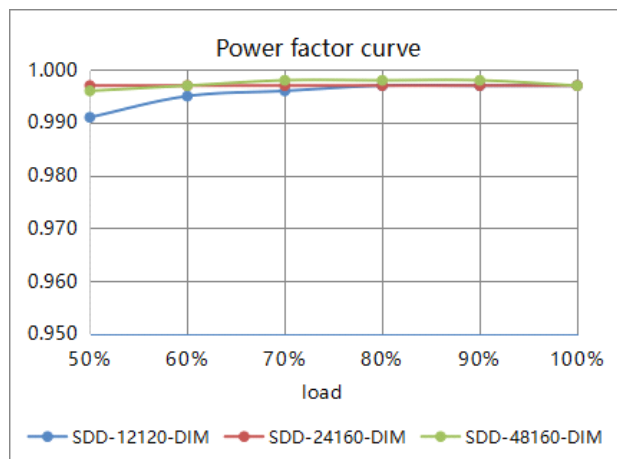
Specification

M o d e l		S D D -12120-D M		S D D -24160-D M		S D D -48160-D M	
Certificate		UL / cUL / FCC / C l a s s P / SELV / RoHS / Reach					
O u t p u t	DC Rate Voltage	12V (12V-13.5V a d j u s t b y knob)		24V (24V-26V a d j u s t b y knob)		48V (48V-50V a d j u s t b y knob)	
	V o l t a g e T o l e r a n c e	±0.5V					
	Load Regulation	≤2%		≤1%		≤1%	
	Line Regulation	≤0.5%					
	Rated current	10A		6.67A		3.33A	
	Rated power	120W		160W		160W	
	V o l t a g e R i p p l e	3%		2%		1%	
I n p u t	V o l t a g e R a n g e	120VAC					
	Frequency Range	60H z					
	PowerFactor@ f u l l l o a d	0.99					
	THD (Typ.) @ f u l l l o a d	≤10%					
	Efficiency @ f u l l l o a d	93.3%		94.5%		95%	
	AC Current (M a x.)	1.1A		1.5A		1.5A	
	Inrush Current (Typ.)	54A, 290us@ 50% Ipeak					
	Leakage current	< 0.5m A					
P r o t e c t i o n	ShortCircuit	Hiccup m o d e, recovers autom atically after fault condition is rem oved					
	O verLoad	≥110% Constant current m o d e, recovers autom atically after fault condition is rem oved					
	O ver tem perature	Shell surface tem perature 100℃ ±10℃ shut down o/p voltage, autom atically recover after cooling					
E n v i r o n m e n t	W o r k i n g T E M P.	-40~+60℃ (see below derating curve)					
	W o r k i n g H u m i d i t y	20 - 95% RH non-condensing					
	Storage TEM .,Hum idity	-40 - +80℃,10 - 95% RH non-condensing					
	TEM P.coefficient	±0.03% /℃ (0 - 50℃)					
	V i b r a t i o n	10~500H z, 2G 12m in./1 cycle, period for 72 m in. each along X,Y,Z axes					
S a f e t y & E M C	Safety standards	UL8750 CAN/CSA-C22.2 No.250.13 (US)					
	W i t h s t a n d v o l t a g e	I/P-0 /P:1.8KVAC I/P-F/G :1.8KVAC O /P-F/G 0.5KVAC (US)					
	I s o l a t i o n r e s i s t a n c e	I/P-0 /P:100M Ω / 500VDC / 25℃ / 70% RH					
	E M C I m m u n i t y	FCC/ICES do not request this test (US)					
	E M C E m i s s i o n	FCC Part15 Subpart B ANSIC63.4 2014 (US)					
O t h e r s	N e t W e i g h t	0.27KG					
	D i m e n s i o n	105*54*52m m / 4.134"x2.126"x2.047" (Inch)					
	P a c k i n g						
N o t e s	1. A l l p a r a m e t e r s N O T s p e c i a l l y m e n t i o n e d a r e m e a s u r e d a t 120VAC input, rated load and 25℃of ambient temperature.						
	2. T o l e r a n c e : i n c l u d e s s e t u p t o l e r a n c e a n d l o a d r e g u l a t i o n .						

Efficiency Curve (efficiency vs output load)



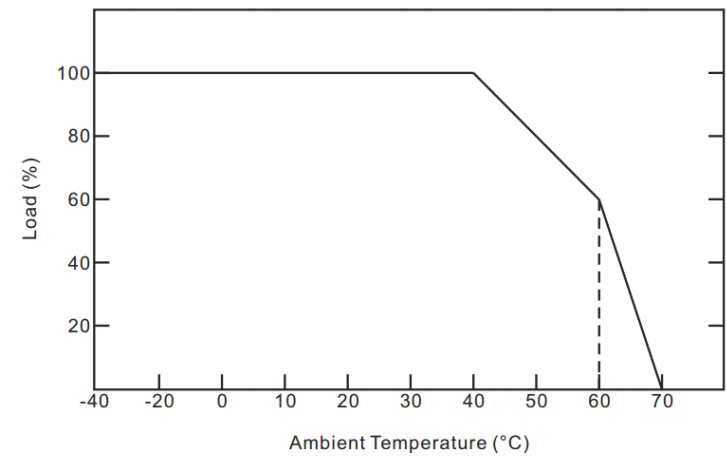
Power factor curve



Derating Curve (Output power VS Ambient TEM P)

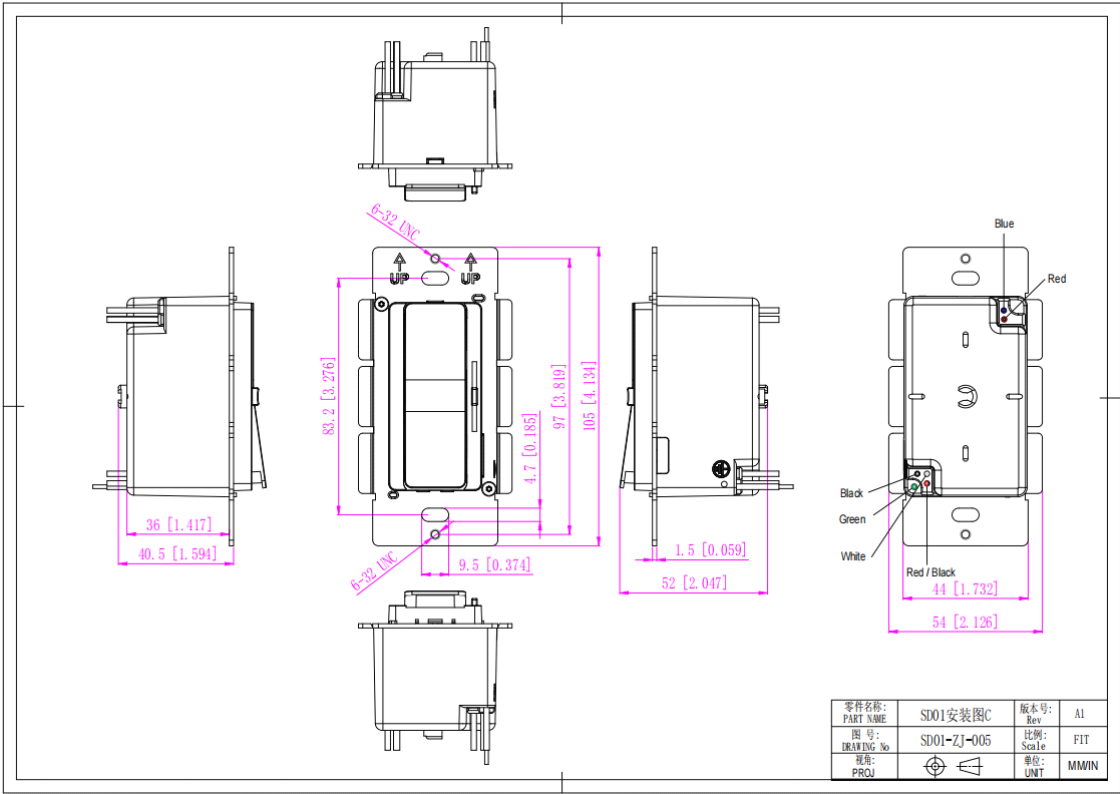
Driver+ Dimmer (2 in 1) LED Constant Voltage Driver SDD-DIM series 120W 160W

PWM output



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



Driver+ Dimmer (2 in 1) LED Constant Voltage Driver SDD-DM series 120W 160W

PWM output

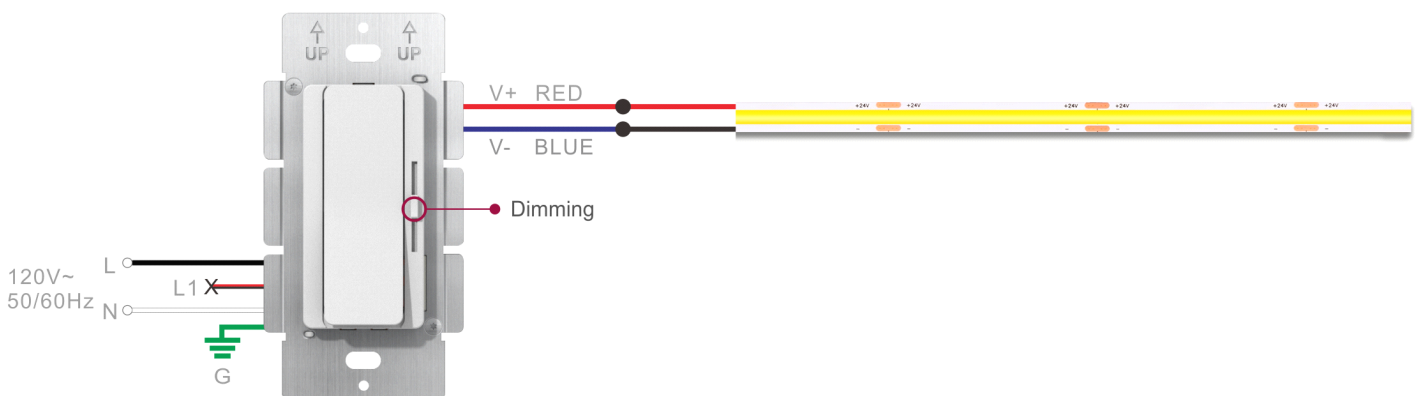
American Wire Gauge SD01	
Input wires	Black cable (L), Red black cable (L1), White cable (N) and Green cable (FG) (4*18AWG)
Output wires	Red cable (V+), Blue cable (V-) (12V 2*16AWG, 24V/48V 2*18AWG)

Warm tips:

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

Connecting Diagram

① SDD-DM model for standard dimming system

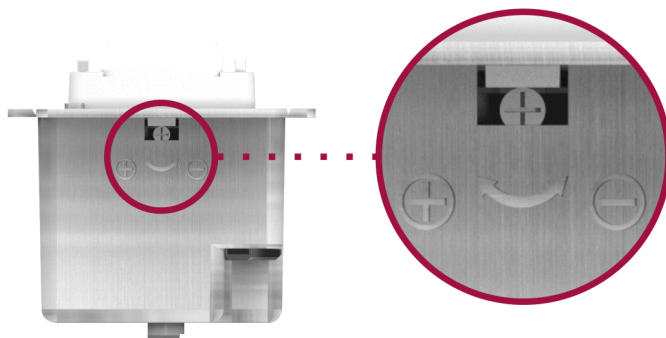


② SDD-DM model for 3-way dimming system

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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.