

SDD-CCT series

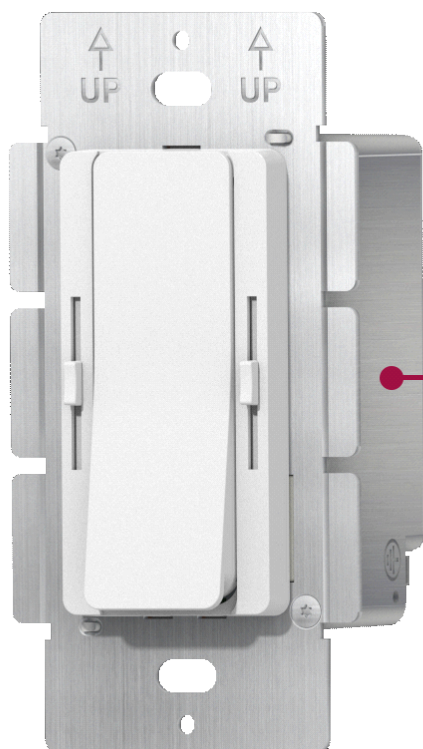
Whole Family: SDD-xx060-CCT DC- (xx= 12V 24V 48V) [60W 96W 100W 120W 160W]



Class P

SELV

RoHS



The driver is inside

Features

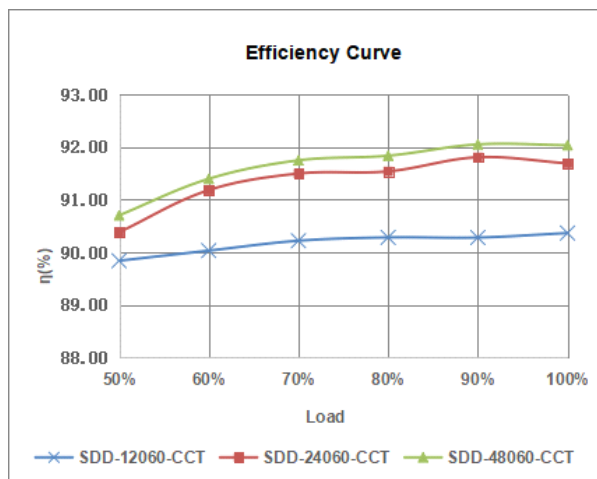
Output:	Constant Voltage
Input Range:	120VAC
PFC design:	Built-in active PFC function
Protections:	Short circuit/ Over load/ Over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	For dry and damp locations (US)
Design features:	1) Fine-tune output voltage can be adjusted slightly 2) Preset dimmer with on/off switch 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

Driver+ Dimmer 2 in 1 constant voltage SDD-CCT series 60W PWM output

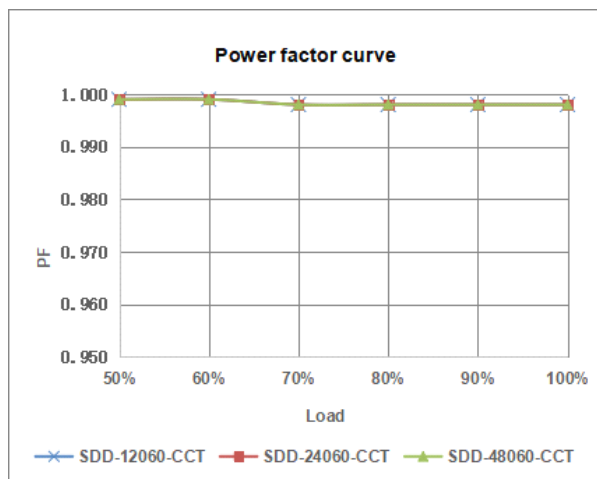
Specification

M o d e l		SDD -12060-CCT	SDD -24060-CCT	SDD -48060-CCT
Certificate		UL / cUL / FCC / C l a s s P / SELV / RoHS / Reach		
Output	DC Rate Voltage	12V (12V-13.5V a d j u s t by knob)	24V (24V-26V a d j u s t by knob)	48V (48V-50V a d 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@ 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	90.0%	91.0%	92.0%
	AC Current (M a x.)	0.6A	0.6A	0.6A
	Inrush Current (Typ.)	50A, 150us@ 50% I _{peak}		
	Leakage current	< 0.5m A		
Protection	Short C i r c u i t	H i c c u p m o d e, recovers a u t o m a t i c a l l y after fault condition is rem o v e d		
	O v e r L o a d	≥110% C o n s t a n t c u r r e n t m o d e, recovers a u t o m a t i c a l l y after fault condition is rem o v e d		
	O v e r t e m p e r a t u r e	S h e l l s u r f a c e t e m p e r a t u r e 100℃ ±10℃ s h u t d o w n o / p v o l t a g e, a u t o m a t i c a l l y r e c o v e r after cooling		
Environm ent	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 n o n - c o n d e n s i n g		
	Storage TEM ., Hum idity	-40 - +80℃, 10 - 95% RH n o n - c o n d e n s i n g		
	TEM P. coefficient	±0.03% /℃ (0 - 50℃)		
	V i b r a t i o n	10~500H z, 2G 12m i n./1 cycle, period for 72 m i n. each along X,Y,Z axes		
Safety & E M C	Safety standards	UL8750 C A N / C S A - C 22.2 N o.250.13 (U S)		
	W i t h s t a n d v o l t a g e	I/P-O /P:1.8KVAC I/P-F/G :1.8KVAC O /P-F/G :0.5KVAC (U S)		
	I s o l a t i o n r e s i s t a n c e	I/P-O /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 (U S)		
	E M C E m i s s i o n	FCC Part15 Subpart B A N S I C 63.4:2014 (U S)		
O t h e r s	N e t W e i g h t	0.25KG		
	D i m e n s i o n	105*54*51m m / 4.134~x2.126~x1.996" (Inch)		
	Packing			
Notes	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℃ o f a m b i e n t t e m p e r a t u r e. 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 .			

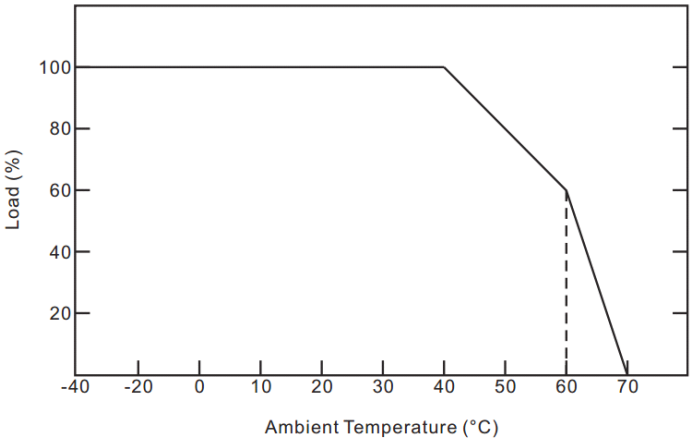
Efficiency Curve (efficiency vs output load)



Power factor curve

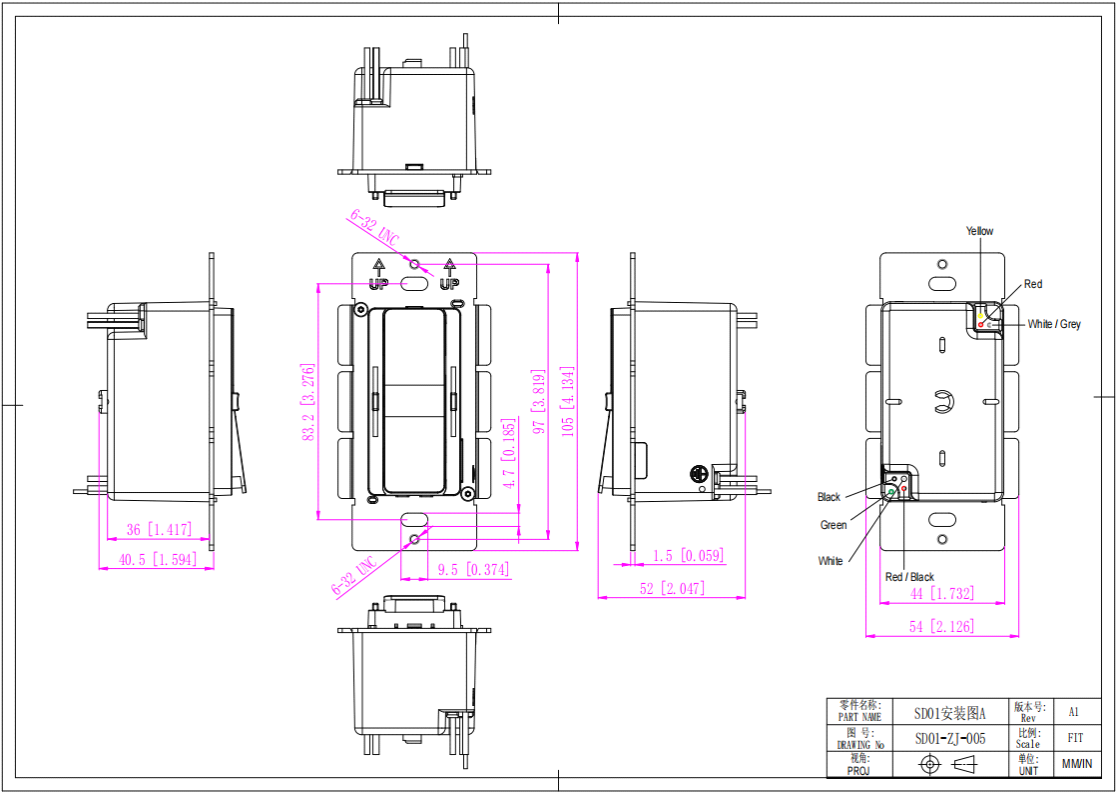


Derating Curve (Output power VS Ambient TEM P)



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)

Driver+ Dimmer 2 in 1 constant voltage SDD-CCT series 60W PWM output

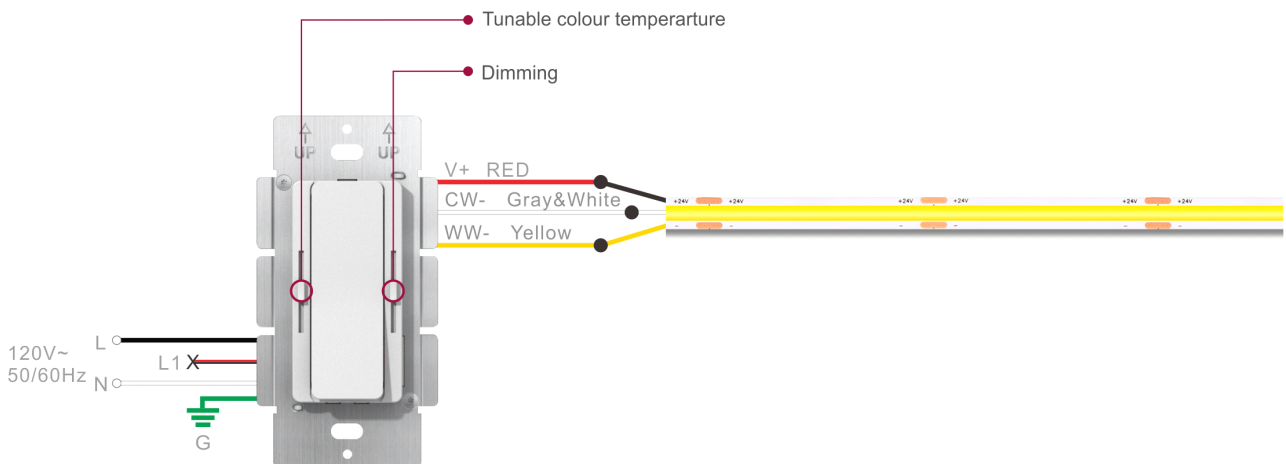
Output wires	Red cable (V+), White/Gray cable (CW-), Yellow cable (WW-) (3*18AWG)
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Warm tips:

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

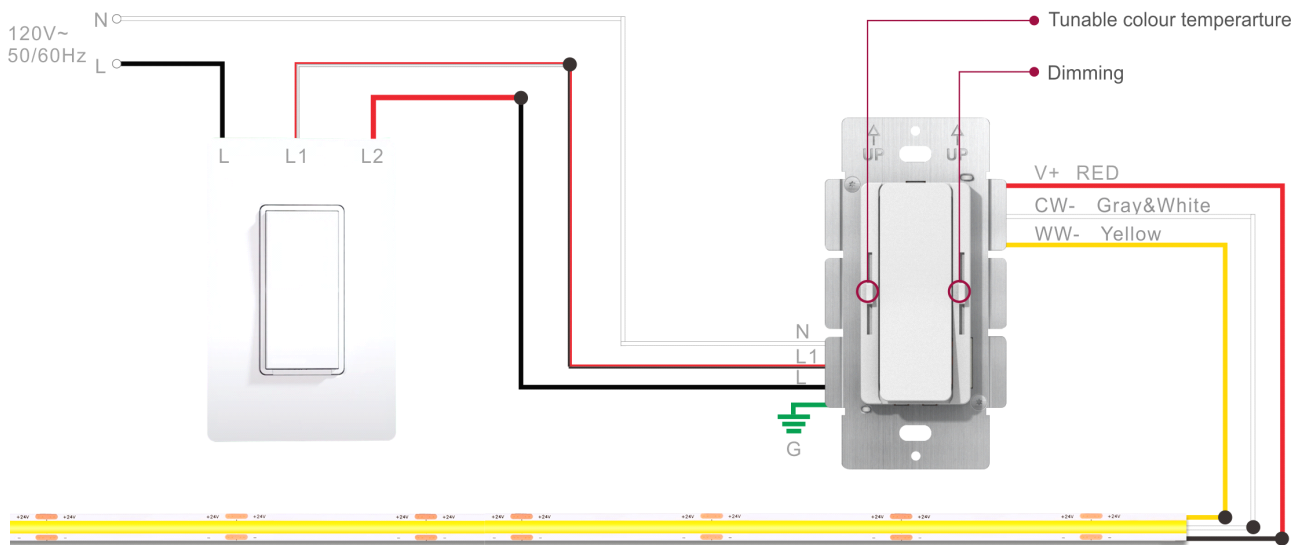
Connecting Diagram

① SDD-CCT model for standard dimming system



② SDD-CCT model for 3-way dimming system

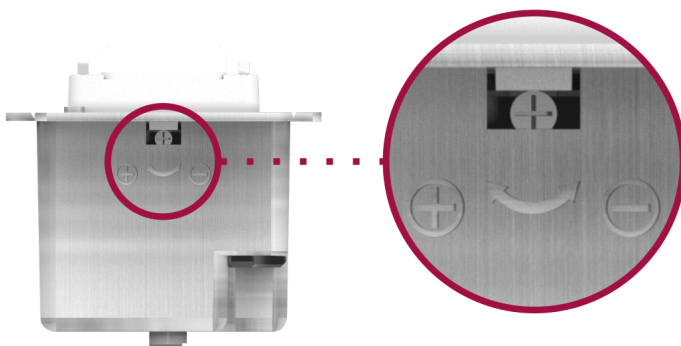
Driver+ Dimmer 2 in 1 constant voltage SDD-CCT series 60W PWM output



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.