Constant Voltage LED Driver SDL60-12/24/48VF6 SDL60-24VF8



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Product description

The SDL60 series is an indoor constant voltage DALI LED driver. Its input voltage range is 198-264Vac, with a conversion efficiency of up to 88%. It adopts a fanless design and works at -20°C~+45°C for natural cooling. high power factor, ultra-low total harmonic distortion, low standby power consumption, and all-round protection functions not only greatly improve the reliability of the product, but also ensure the product life cycle. This series of products is designed for LED lighting design and used in indoor lighting. Suitable for various application environments in almost all indoor places where LED lamps can be installed. Comply with DALI2.0 standard (IEC 62386-101, 102, 207, 209), innovative thermal management technology, intelligent protection of power supply life.

Standards

EN61347-1 EN61347-2-13 EN61547 EN55015 EN61000-3-2 EN61000-3-3 EN62384 EN62493 IEC 62386-101,102,207

Characteristics

- AC input range (220-240VAC)
- With active PFC function
- IP20
- Suitable for indoor
- Dimming range: 1-100%
- Protection type: short circuit/over temperature/over voltage/over load protection
- Plastic shell ,filled with glue inside
- Comply with lighting equipment safety regulations
- 5 years warranty



Specifications

Model		SDL60-12VF6	SDL60-24VF6/VF8	SDL60-48VF6			
	turn on time(S)	<680mS	<680mS	<680mS			
	output power(W)	6-60	6-60	6-60			
	output voltage(V)	12	24	48			
	output voltage tolerance	≤±5%	≤±5%	≤±5%			
	ripple voltage(mV)	≤240mVp-p	≤240mVp-p	≤240mVp-p			
Output	Line Regulation	±1%	±1%	±1%			
	Load Regulation	±3% ±3%		±3%			
	working current range(A)	0.5-5	0.25-2.5	0.125-1.25			
	rated DC supply voltage(Vdc)	NA	NA	NA			
	rated supply voltage(Vac)	220-240	220-240	220-240			
	voltage range(Vac)	198-264	198-264	198-264			
	line frequency(Hz)	50/60	50/60	50/60			
	input current(A)	<0.6	<0.6	<0.6			
	efficiency (TYPE)	85%@full load,230Vac	88%@full load,230Vac	88%@full load,230Vac			
	average efficiency(TYPE) (TYPE)	85%@full load,230Vac	86.5%@full load,230Vac	87%@full load,230Vac			
	no load power consumption(W)	≤0.5W	≤0.5W	≤0.5W			
	power factor	0.95@230Vac, full load	<u>0.95@230Vac, full</u> load	0.95@230Vac, full load			
	Displacement factor	0.95	0.95	0.95			
	THD(typ.) THD (Type)	8%	8%	8%			
	inrush current(lpk) (lpk)	<70A/162uS@50%	<70A/162uS@50%	<70A/162uS@50%			
	Leakage current (mA)	< <u>0.75mA@264Vac</u> 50Hz	< <u>0.75mA@264Vac</u> 50Hz	< <u>0.75mA@264Vac</u> 50Hz			
	short circuit protection	power on again after fault correction					
	over load protection	d protection hiccup mode, restart automatically after fault correction.					
	over voltage protection	Latch off, power on again after fault correction (under full load)					
	Over temperature protection	Latch off,power	on again after fault corre	ection			
Protectio	on surge capacity	L-N: 1KV					
	Withstand voltage	Input-Output:3000V/5mA/1min					
	Ta(C)	-2045(See derating curve)					
	Tc max.(C)	max.85					
	Storage Temperature(°C)	-40+85°C					



Ambient and Life	ambient humidity range	10%90%RH, Not condensing			
	nominal life-time(hrs)	50'000@Ta			
	dimensions (L×W×H) (mm) 尺寸	361.5mm * 30mm * 21.3mm			
	weight(g) 230±10G				
Other	casing material Plastics				
Other	housing colour	White			
	type of protection	IP20			
	protection class	class II			
	certificate				
Note	 I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and "EFFICIENT"curve graphs. Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic average of these four values. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 				

1. Tolerance: including setting tolerance, linear adjustment rate and load adjustment rate.

2. Tested under full load and 230Vac. Refer to the "Power Factor" and "Efficiency" graphs.

To calculate the average efficiency of the product, test the voltage at 100%, 75%, 50%, and 25% of the rated current, and then obtain the average of the four values through the arithmetic mean method.
 All parameters not specifically mentioned are measured at rated voltage input, rated load and 25°C ambient temperature.

5. A power supply is a component used in conjunction with the final device. Since EMC performance will be affected by the complete installation, the final equipment manufacturer must reconfirm that the equipment after complete installation complies with the EMC directive.

Function	Press time
Status no change	<0.05 sec.
Push ON/OFF	0.1-1 sec.
Long press to dim down or up	1.5-10 sec.
Long press in the off state, dimming from the minimum value	>1 sec.

PUSH button dimming/color temperature adjustment.

Dimming: long press .

Switch: short press.

Dimming memory: When the light is turned off and turned on again, the light will return to the previously adjusted brightness level.

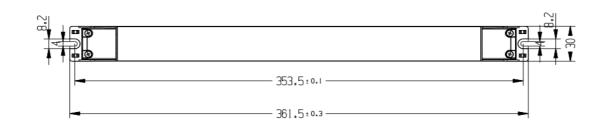
Each long press will adjust the brightness in the opposite direction.

Long press for more than 15S is a synchronization function. All devices will be adjusted to 50%. Press and hold again to adjust the dimming brightness down. (DT8 color temperature will be unified to 4500K. Long press again will adjust the color temperature down.)



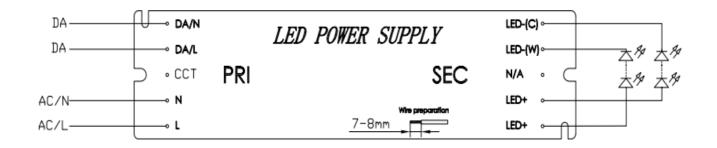
Dimensions(mm)



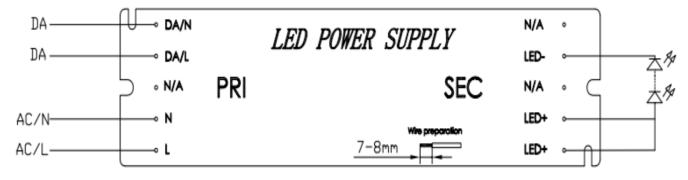


Wiring Diagram

DALI DT8

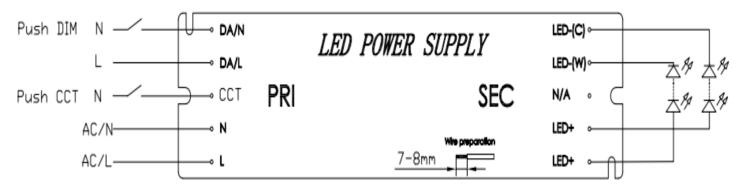


DALI DT6

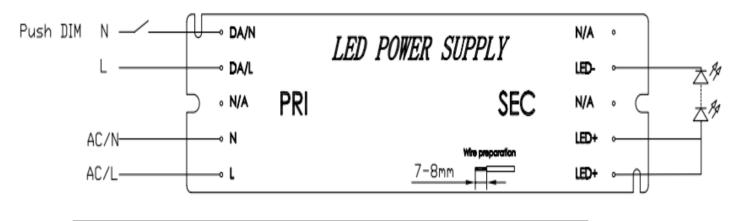








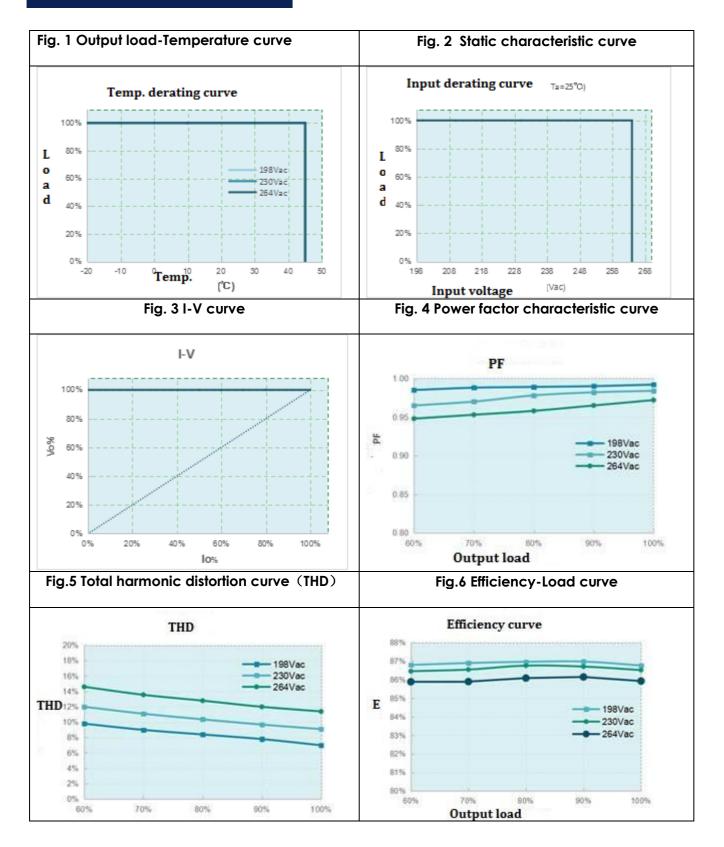
PUSH DT6



AC	Teminal H03WH2-F 2*0.75mm2
DC	Terminal H05WH2-F 2*0.75mm2



Electrical curves





MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SDL60-12VF6	10	13	16	20	12	16	20	25
SDL60-24VF6/VF8	10	13	16	20	12	16	20	25
SDL60-48VF6	10	13	16	20	12	16	20	25

Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SDL60-12VF6			
SDL60-24VF6/VF8			
SDL60-48VF6			

Revision history

Date	Rev.	Remark
2023.8.23	A2	Version update
2023.12.18	A3	Push diagram added

