Constant Current LED Power Supply SDS26-700IL





Standards

EN61347-1:2015 EN 61347-2-13:2014+A1 AS/NZS61347.2.13 EN 61347-2-13:2014 +A1 EN61347-1:2015 IEC62386

Product description

SDS26-700IL is a constant current DALI dimmable led driver providing different current 160/200/250/300/350 /400/450/500/550/600/650/700mA Output current can be adjustable by DIP switch, meeting DALI standard IEC62386.DALI dimming/Touch DIM (Push DIM) smooth curve, no flicker. Its input voltage 220-240Vac, with high efficiency 87%, It operates in the temperature range of-20°C~+45°C natural cooling and cooling casing, and has ultra-high power factor, ultralow total harmonic distortion, low standby power consumption and comprehensive protection functions. It not only greatly improves product reliability, but also ensures product life cycle.

Characteristics

- 12 level current dip switch
- with PFC function
- IP20
- suitable for indoor light,eg down light,spot light
- 0-100% full dimming, no visible flicker,4K frequency PWM dimming,
- meet DALI standard IEC62386

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Specifications

Model		SDS26-700IL		
	turn on time(S)	<0.7		
	output power(W)	26		
	output voltage(V)	20-50		
	output voltage tolerance	≤±8%		
	ripple voltage(mA)	5%		
	Line Regulation	±5%		
	Load Regulation	±5%		
Output	working current range(A)	0.16-0.7		
	SVM	≤0.4		
	Pst	≤۱		
	dimming type	DALI2.0		
	dimming range	1-100%		
	rated DC supply voltage(Vdc)	-		
	rated supply voltage(Vac)	220-240		
	voltage range(Vac)	198-264		
	line frequency(Hz)	50/60		
	input current(A)	0.15		
	efficiency	≥87%@full load		
	average efficiency 3	86%		
	no load power consumption(W)	≤0.5W		
Input	power factor	0.95@full load		
	Displacement factor	0.95		
	THD(typ.) THD	10		
	inrush current(lpk)	25A		
	Leakage current	5mA		
	short circuit protection	hiccup mode, restart automatically after fault correction.		

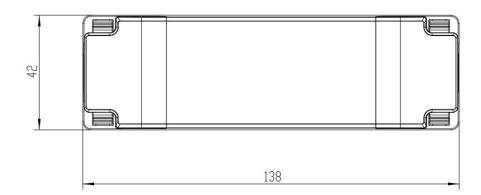


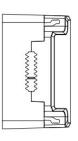
	over load protection	exceed maximum rated load times 1.1		
	Over voltage protection	-		
	Over temperature protection			
Protection	surge capacity	L-N: 1KV		
	Withstand voltage	Input-Output: 3750V/5mA/1min		
	Ta(C)	-2045		
	Tc max.(C)	max.80		
	Storage Temperature(C)	-4085		
Ambient and Life	ambient humidity range	10%90%RH, Not condensing		
	nominal life-time(hrs)	50'000@Tc		
	dimensions (L×W×H)(mm)	138*42*25		
	weight(g)	110g		
	casing material	Plastic		
	housing colour	White		
Other	type of protection	IP20		
	protection class	class II		
	certificate			
Note	1.Tolerance:includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3.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. 4.All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 5.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.			



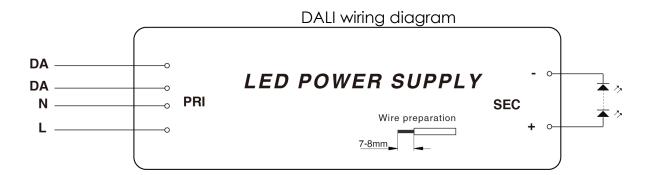
Dimensions(mm)



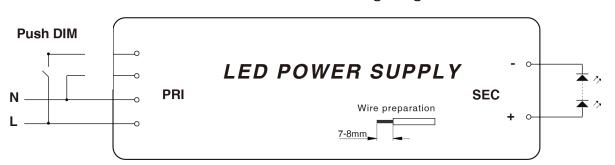




Wiring Diagram



Push DIM wiring diagram



AC	H03VVH2-F 2*0.75—1.5mm2
DALI	H03VVH2-F 2*1.5mm2
DC	H03VVH2-F 2*0.75mm2



Push dimming, Push dimming operation like below:

Wire diagram: put DALI interface to 50/60Hz AC100~300V, put driver L,N to the DALI interface through resect switch

Short press: press the resect switch quickly and release , the button automatically returns to disconnected state, press the button for $40\sim500$ ms;

Long press: Quickly press the reset button without release ,duration>500ms;

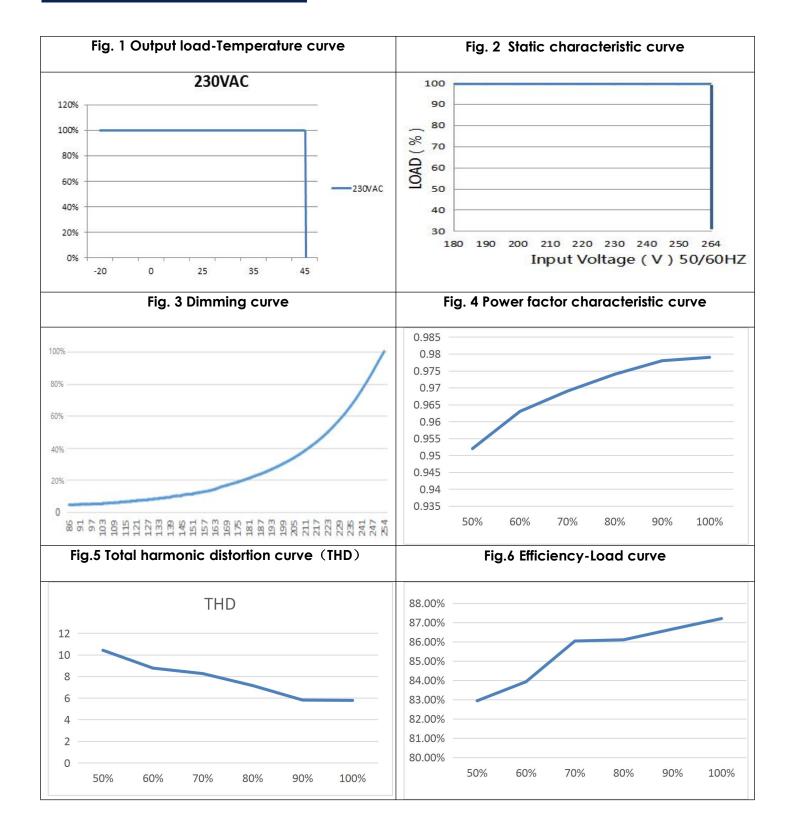
NO.	function	operation	remark
1	memory	Turn on	Push mode, LED driver turn on, will have memory before shutdown; If it is stand by statement before turn off, it will be stand by after turn on, it defaults to max bright after short press
2	Turn on/off	Short press	If the light is bright, it will turn off after short press, if the light is off, it will turn on after short press, the brightness is the same as the status before light turn off
3	dimming	Long press	Long press the resect switch, it goes into dimming situation, long press > 500ms, it starts changing; If the previous status is dimming to bright, the next one status is dimming to dark, release the resect switch, dimming stop, keep the previous brightness; 1%~100% Gradient time is 3 S If long press under turn off status, the brightness will change from MIN to MAX;
4	synchroniza tion	Long press >10S	Long press >10S, it turns to 100% output, use for multiple lamp synchronization

DIP switch settings

	PI	lout	Vout		
1	2	3	4	mA	
ON	ON	OFF	OFF	160	30-50
OFF	OFF	ON	OFF	200	30-50
ON	OFF	ON	OFF	250	20-50
OFF	ON	ON	OFF	300	20-50
ON	ON	ON	OFF	350	20-50
ON	OFF	OFF	ON	400	20-50
OFF	ON	OFF	ON	450	20-50
ON	ON	OFF	ON	500	20-50
OFF	OFF	ON	ON	550	20-47
ON	OFF	ON	ON	600	20-43
OFF	ON	ON	ON	650	20-40
ON	ON	ON	ON	700	20-38



Electrical curves





MCBS

Model							
SDS26-700IL 18	25	30	39	32	42	52	64

Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SDS26-700IL			

Revision history

Date	Rev.	Remark
2023.3.22	V0.01	Initial release.
2023.6.15	V0.02	Official release
2023.10.25	V0.03	Change dimming range from 0-100% to 1-100%

