# Constant Current LED Power Supply SDS15-350IL





#### 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

SDS 15-350 IL is an indoor DALI constant current LED driver which can provide 8 current of 120 / 150 / 180 / 210 / 250 / 280 / 320 / 350 mA, Its output current can be easily set through DIP dialing, and complies with DALI standard protocol IEC62386. Dimming with DALI master / Touch DIM (Push DIM) switch, the curve is smooth and no strobe. Its input voltage range is 220-240 Vac, with the maximum conversion efficiency of 85%, working in the temperature range of-20°C ~ + 50°C natural cooling radiator shell, and has ultra-high power factor, ultra-low total harmonic distortion, low standby power consumption, all-round protection function, not only greatly improve the reliability of the product, and ensure the product life cycle.

#### Characteristics

- 8 current
- Built-in active PFC function
- IP20
- Suitable for LED indoor lamps such as down lights / spotlights
- Comply with DALI standard protocol IEC62386



www.snappy.cn Last update: 1 MAR, 2023

### Specifications

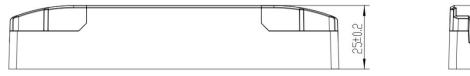
Model		SDS15-350IL
	turn on time(S)	<0.7
	output power(W)	15
	output voltage(V)	9-48
	output voltage tolerance	≤±5%
	ripple voltage(mA)	<3%
Output	Line Regulation	3%
	Load Regulation	3%
	working current range(A)	0.12-0.35
	SVM	≤0.4
	Pst	≤۱
	dimming type	DALI2.0
	dimming range	1-100%
	rated DC supply voltage(Vdc)	-
	rated supply voltage(Vac)	220-240
	voltage range(Vac)	198-264
	line frequency(Hz)	50/60
	input current(A)	0.07
	efficiency	≥85%@full load
	average efficiency 3	≥84%
Input	no load power consumption(W)	≤0.5W
	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.

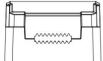


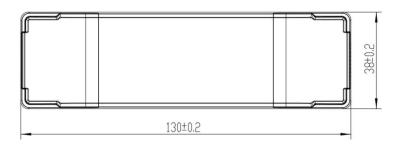
	over load protection	exceed maximum rated load times 1.1		
	Over voltage protection	-		
	Over temperature protection	-		
Protection	surge capacity	L-N: 0.5KV		
	Withstand voltage	Input-Output: 3750V/5mA/1min		
	Ta(C)	-2050		
	Tc max.(C)	max.80		
	Storage Temperature(C)	-4085		
Ambient and Life	ambient humidity range	10%90%RH, Not condensing		
	nominal life-time(hrs)	50'000@Tc		
	dimensions (L×W×H)(mm)	130*38*25		
	weight(g)	80g		
	casing material	Plastic		
Other	housing colour	White		
	type of protection	IP20		
	protection class class II			
	certificate			
Note	<ul> <li>1.Tolerance:includes set up tolerance, line regulation and load regulation.</li> <li>2.Tested at full load,230Vac.Refer to"Power Factor" and "EFFICIENT"curve graphs.</li> <li>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.</li> <li>4.All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature.</li> <li>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.</li> </ul>			



## Dimensions(mm)

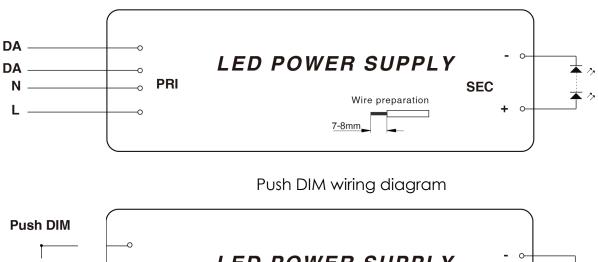






### Wiring Diagram

#### DALI application wiring diagram



	o o		LED POWER SUPPLY		- 0	<b>*</b> *
N	o	PRI		SEC		÷ ,
	_		Wire preparation		0	
L			7-8mm	-		

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



Compatible with the Push dimming mode, the Push dimming operation method is as follows: Wiring: connect the DALI interface to 50 / 60Hz AC100~300V, and connect the L and N terminals of the power supply to the DALI interface through a reset switch;

Short press: quickly press the reset button and let go, the button will automatically restore the disconnected state, press the button duration of 40~500ms;

Long press: quickly press the reset button and don't let go, duration> 500ms;

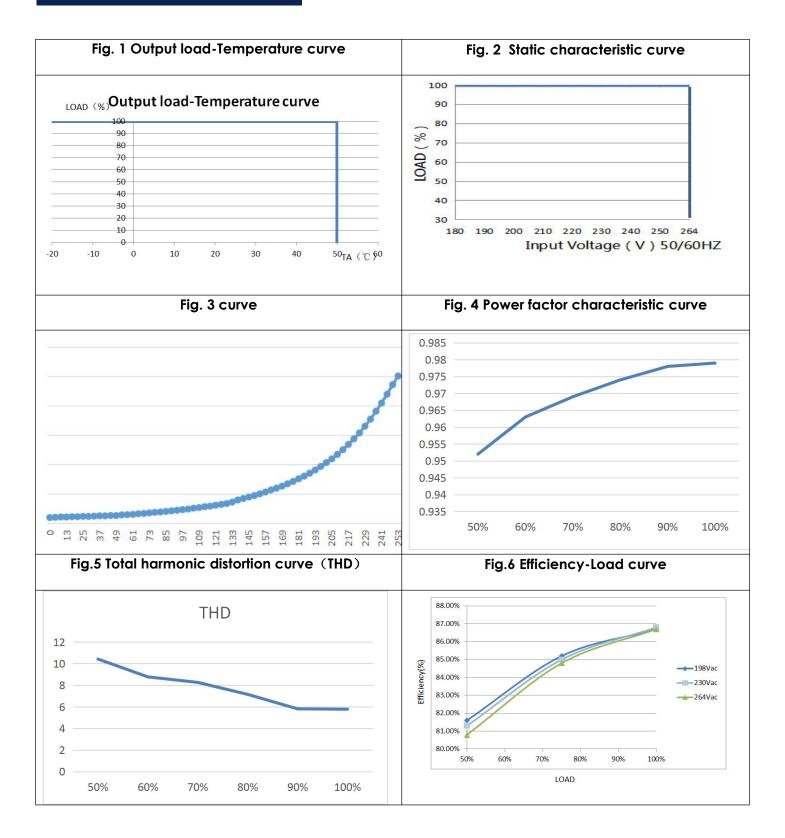
NO.	Function	Operation	Instruction
1	memory	power on	In Push mode, after the LED driver is powered on, it will remember the state before power-off; If it is on standby before power-off, it is still on standby after power-on, and after the next short press of switch, the default is the maximum brightness.
2	Turn on / off the lights	Short press	If the light is on, the light off after short press; if the light is off, the light on after short press, the brightness is the same as before the last light was turned off.
3	Dimming	Long press	Long press reset button into dimming state, long press after 500ms began to change; If the previous time is dimming brighter, the next time is dimming darker. After releasing the reset button, the dimming stops to maintain the current brightness; 1%~100% gradient time is 3 seconds; If it is in the state of turning off the light long press, the brightness gradually increases from the minimum brightness.
4	Synchroniza tion	Long press for more than 10 seconds	When the long press time reaches 10 seconds, jump to 100% output for multi-lamp synchronization.

### DIP switch settings

	PIN	lout	Vout	
1	2	3	mA	V
OFF	OFF	OFF	120	9-48
ON	OFF	OFF	150	9-48
OFF	ON	OFF	180	9-48
ON	ON	OFF	210	9-48
OFF	OFF	ON	250	9-48
ON	OFF	ON	280	9-48
OFF	ON	ON	320	9-47
ON	ON	ON	350	9-42



#### Electrical curves





### MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SDS15-350IL	16	21	26	33	28	36	45	56

# Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SDS15-350IL			

## Revision history

Date	Rev	Remark
2023.3.22	V0.01	Initial release.

