

# NINGBO SNAPPY OPTOELECTRONICS CO.,LTD SDL100-VFB



## Features:

- .Built-in constant voltage LED drive power supply
- .Built in push dimming
- .Comply to DALI 2.0 standard(IEC 62386-101,102,207)
- .Linear or log curve optional
- .Dimming range 1.0-100%
- .Start-up time is less than 0.5s
- .Open circuit, short circuit, overload, over temperature protection
- .Efficiency greater than 92%
- .For indoor lighting,office lighting
- .5 years warranty

Model		SDL100-VFB	
Output	VOLTAGE RANGE	12VDC	24VDC
	RATED CURRENT	8.33MAX	4.16A
	MAX OUTPUT POWER	100W	
	SETUP TIME	<0.5 sec. @230VAC	
	Dimming range	1.0-100%	
Input	Input mode	DALI OR PUSH DIMMING	
	VOLTAGE RANGE	220-240VAC	
	INPUT POWER	<115W	
	Input current	0.6A MAX	
	Inrush current	50A MAX	
Protection	OVER CURRENT	110-150%	
	OVER VOLTAGE	15VDC MAX	26VDC MAX
	OVER TEMPERATURE	Thermal lock	
	SHORT CIRCUIT	Hiccup mode auto-recovery	
Environment	WORKING TEMP.	-40~45℃	
	WORKING HUMIDITY	15~95% RH	
	STORAGE TEMP., HUMIDITY	-40~80℃, 10~95% RH	
	TEMP. COEFFICIENT	±0.05%/℃ (-10~45℃)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 30 min. each along X, Y, Z axes	
Safety&EMC	SAFETY STANDARDS	EN61347-1, EN61347-2-13	
	DALI STANDARDS	comply to DALI 2.0 standard(IEC 62386-101,102,207)	
	WITHSTAND VOLTAGE	I/P:-O/P:5.3KVDC 1mins	
	ISOLATION RESISTANCE	I/P:-O/P:50M Ohm/500VDC/25℃/70%RH	
	HARMONIC	comply to EN61000-3-2 CLASS C (100% load)	
	EMC EMISSION	comply to EN55015, FCC PART15 ClassB	
	EMC IMMUNITY	comply to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN55024; EN61547	
Others	MTBF	5 years MIL-HDBK-217F (45℃)	
	DIMENSION		
	PACKING		

■ Dimming operation

1 Push dimming

Function	Push time
No status change	<0.05 sec.
Push on/off	0.1-1 sec.
Dimming up or down	1.5-10 sec.
Set 100% brightness	>11 sec.

Factory setting 100%  
Each time press will change the dimming direction

2 DALI interface

DALI agreement includes 16 groups and 64 addresses  
DALI agreement can be divided into 16 scenarios

■ Dimming connection diagram

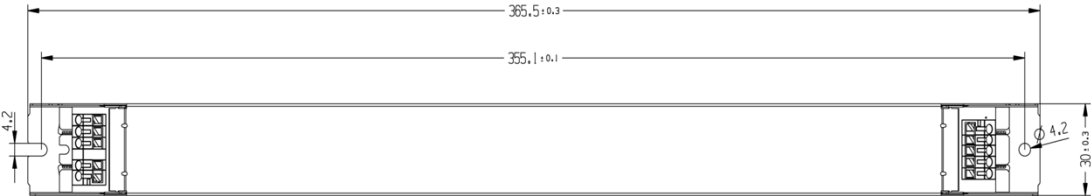
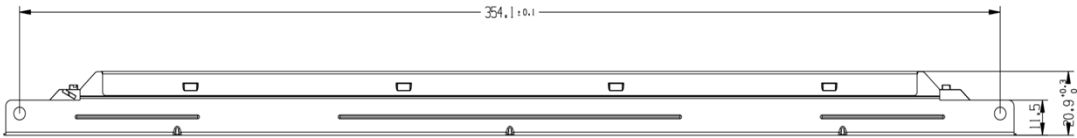
The DALI wiring diagram



The PUSH dimming wiring diagram



Please select the suitable wires to ensure maximum voltage between two products should be no higher than 2V during synchronous parallel operation  
Dimensions



Pin function description

Functions	Description
DA	DA signal/AC Null Wire
DA	DA signal/connect it between AC Live Wire and switch
AC/N	AC Null Wire
AC/L	AC Live Wire
Vout+	Positive polarity
Vout-	Negative polarity