# NINGBO SNAPPY OPTOELECTRONICS CO., LTD.





# Features:

.DALI-2.0 DT6/DT8 Dimming temperature and color drivers

.Comply to DALI2.0 standards (IEC 62386-101,102,207,209)

.Built in push dimming

.Built-in constant voltage LED driver

.Constant power design, adjust different color temperature to maintain the same brightness Linear or log curve optional

.Dimming range 0-100%, LED lights dimming from 1%

.Start-up time is less than 0.5s

.Auto recovery protection if over temperature, over voltage, overload, short circuit .Efficiency greater than 94%

.Comply with EU energy efficiency ERP directive, standby power consumption less than 0.5W

.For indoor lighting, office lighting

.More than 50000 hours rated life

.Innovative thermal management technology, intelligent life protection

.5 years warranty

# **Technical Specification**

	Model	SDN200-24VL6	SDN200-24VL8	SDN240-24VL6	SDN240-24VL8	
VOLTAGE RANGE		24VDC				
Output	RATED CURRENT	0-8.33A		0-10A		
	MAX OUTPUT POWER	200W		240W		
	OUTPUT POWER RANGE	0-200W		0-240W		
	Pno	<		20.5W		
	PWM DIMMING RATING	1kHZ				
	NOISE AND RIPPLE	1%				
	DIMMING RANGE	0-100% Dimming depth: 1%				
Input	INPUT MODE	DALI-2 DT6/DT8 OR PUSH DIMMING				
	VOLTAGE RANGE	220-240VAC				
	INPUT FREQUENCY	50HZ				
	INPUT POWER	<270W				
	INPUT CURRENT	1.2A MAX		1.5A MAX		
	PF	PF>0.99/230Vac (full load)				
	THD	THD<4.2%/230Vac( full load )				
	EFFICIENCY	0.945		0.955		
	INRUSH CURRENT	50A MAX				
	LEAKAGE CURRENT	<700mA				
Protection	OVER CURRENT	110-160%				
	OVER VOLTAGE	36VDC MAX				
	OVER TEMPERATURE	Thermal lock				
	SHORT CIRCUIT	Auto-recovery after removed				
Environment	WORKING TEMP.	-20∼45 ℃				
	WORKING HUMIDITY	15~95% RH				
	STORAGE TEMP., HUMIDITY	-40∼80℃,10~95% RH				
	TEMP. COEFFICIENT	±0.05%/°C(-10~45°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./cycle, X, Y, Z axis per 30mins				
Safety&EMC	SAFETY STANDARDS	EN61347-1,EN61347-2-13				
	DALI STANDARDS	Comply to DALI 2.0 standard(IEC 62386-101,102,207,209)				
	WITHSTAND VOLTAGE	I/P:-O/P:5.3KVDC/min.				
	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 (50 $^\circ \!\! \mathbb{C}$ )				
	DIMENSION					
	PACKING					

## Dimming operation

1 Push dimming

functions

Push dimming: long press

Push on/off : short press

Dimming memory: When the light turned off and switched on again, the light will return to the previous adjusted brightness. Each long press adjusts brightness and color temperature in opposite directions

Long press more than 15S for synchronization, adjust the brightness to 50% for all devices. Long press again to lower down the brightness

#### 2 DALI connector

DALI protocol includes 16 groups and 64 addresses

DALI protocol can be divided into 16 scene controls

## 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		
ССТ	Push color temperature adjustment (DT6 not applicable)		
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-(c)	Cool color negative polarity (DT8)		
Vout-(W)	Negative polarity (DT6) / Warm color negative polarity (DT8)		

## Relationship chart



