# 50W DALI DT8 NFC Enabled LED Driver(Constant Current)

SVM PstLM <0.01 <0.02

LISTED Class P DALL SR-Data 251/252/253

Important: Read All Instructions Prior to Installation

# **Function introduction**



## **Product Data**

	LED Channel	2
Output	DC Voltage	10-54V, Max.60V
	Current	650-1300mA via NFC setting; Min.current gear lower to 0.1mA
	Current Accuracy	±3%@ full load
	Rated Power	Max. 50W
	Voltage Range	120-277VAC
	Frequency Range	50/60Hz
	Power Factor (Typ.)	> 0.95 @ 230VAC Full load*
	Total Harmonic Distortion	THD $\leq$ 13% (@ full load / 230VAC)*
	Efficiency (Typ.)	> 85% @ 230VAC full load*
Input	AC Current (Typ.)	0.3A Max.
	Inrush Current (Typ.)	Max. 12.46A at 230VAC; 128µs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	< 0.5W
	Anti Surge	L-N:2KV
	Dimming Interface	DALI Device Type 8 (DALI consumption < 2mA)/ AC Push
Control	Dimming Range	0.01%-100%@ Max current
Control	Dimming Method	Amplitude/CCR dimming
	Dimming Curve	Linear/ Logarithmic optional

Protection	Short Circuit	Yes, recovers automatically after fault condition is removed
	Over Current	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after temperature drop
Environment	Working Temp.	-25℃ ~ +60℃
	Max. Case Temp.	TC=90°C
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH
	Safety Standards	EN61347-1, EN61347-2-13, GB/T 19510.1-2023, GB/T 19510.213-2023
	Withstand Voltage	I/P-O/P: 3.75KVAC
Safety & EMC	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3, GB 17625.1-2022, GB/T 17743-2021
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11
	MTBF	191350H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature
Others	Dimension	285x30x21mm (L*W*H)
	Warranty	5 Years

\*: PF/THD/Eff shall be different per different testing setup and equipment.

• In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2, IEC 62386-209

Built-in DALI-2 interface, DALI DT8 device

• Dimmable LED driver with linear metal housing. Max. output power 50W

• 650-1300mA current selectable via NFC program tool. Min.current gear lower to 0.1mA

• DALI Address/Group/Scene setting via NFC program tool.

 $\bullet$  Class  ${\rm I\hspace{-0.5mm}I}$  power supply, isolated design

High power factor and efficiency

• To switch and dim LED lighting luminaries, enable tunable white control

Amplitude/CCR dimming, smooth and deep dimming

Compatible with universal DALI masters that support DT8 commands

• DALI-251/252/253 Enabled

• IP20 rating, suitable for indoor LED lighting applications

5 years warranty

# Safety & Warnings

• DO NOT install with power applied to the device.

• DO NOT expose the device to moisture.

# Operation

With DALI master

### 1. DALI Address

1 DALI address for 2 channels output are assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

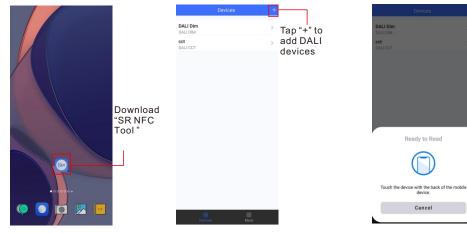
With NFC Programming devices

#### Note

- 1) Do wiring according to the wiring diagram and power on the DALI system .
- 2) Recommend setting parameters without power-on the DALI devices .
- 2) Please make sure your mobile phone has NFC function and enable it .

#### Working with "SR NFC Tool" APP

Step 1: Download the APP (searching "SR NFC Tool" from App Store and Google Play) . Then open the APP .



Note: 1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .

- 2. Please Make sure that the "NFC position" is matched.
- 3. Please do not power on the device before setting.
- 4. If you can't download "SR NFC Tool". Please contact with us.

#### Step 2: Add device, and name it as you wish.



Add confi	iguration
Cancel	Save

Devices	+
DALI Dim DALI DIM	>
CCT DALI CCT	>
DALI Dim 2 DALI DIM	>
APPEND APPEN	

#### Step 3: Unlock device, enter parameters configuring page.

DALI DIM 0x01000001 300.0mA	Locked	Device Type Product Id	DALI DIM 0x01000001	Unlock it	0	Max level Min level
	2001100	Product Id	0x01000001	omookit		initia increa
300.0mA						
		Options	>		0	Power on level System failure
		Target current	300.0mA >		•	Short address Groups
					•	Fade time Fade rate
					0	Dimming curve
					•	Scenes
					0	Target current
						Low side curre

Note: 1. You have to unlock the device then do some settings

2. Only when the corresponding function is selected, the function interface will be displayed.

#### Step 4: Few parameter interface, you can choose the setting based on your requirements.

	Dim 2 ස්
се Туре	DALI DIM
Id	0x01000001
	>
x level	100.0% >
in level	0.100% >
wer on level	MASK >
ystem failure level	MASK >
ort address oups	0 >
de time de rate	Extended fade > 358steps/s >
mming curve	Logarithmic >
enes	>
	ttributes silure level Save
evel	
255 (MASK)	- +
	255
0 mming curve	

#### Step 5: After setting, please save the selected configuration via NFC and power on the device.

<	Scenes	Cancel	Target current	Save	< DALI Dim	2 ජ	< DALI Dim 2	2 t
Scene 0	level MASK >				Options	>	Options	
Scene 1	level MASK >	3000		300.0mA 1=0.1mA	Max level	100.0% >	Max level	
icene 2	level MASK >	Value range 10	000-50000		Min level	0.100% >	Min level	
cene 3	level MASK >							
cene 4	level MASK >				Power on level	MASK >	Power on level	MASK
cene 5	level MASK >				System failure level	MASK >	System failure level	MASK
cene 6	level MASK >				Short address	0 >	Short address	
ene 7	level MASK >				Groups	>	Groups	
ene 8	level MASK >				Fade time	5.7s >	Fade time	
ene 9	level MASK >				rade unie	5.787	Fade time	5.78
ene 10	level MASK >				Ready to V	/rite		
ene 11	level MASK >				$\sim$		$\sim$	
ene 12	level MASK >					)	$(\checkmark)$	
ene 13	level MASK >						$\odot$	
ene 14	level MASK >				Touch the device with the b	ack of the mobile	Successful!	
cene 15	level MASK >				device.		Succession	
					Cancel			
Read	Write	Read	( ) ( )	Write				

# Tips

- **1. NFC function doesn't require any power driver.**
- 2. Many functions can be configured by NFC. Kindly check your desired functions.
- 3. All of our DALI drivers are in the best performance within our DALI master/ gateway.

### 2.Enter CLO Setting homepage

Cancel (	CLO	Save	Ca				Cancel	Cl	0_0	Save
Treview			Tir	me			Preview Output Level (%)			
0 0 10	valid			10 Value range 1-100	kh		100 80 60 40			
Operatio	ng Time (kh)		Le	vel			20 0 10	20 30 Operating	40 Time (kh)	
imes and Levels				75	%		Times and	Levels		
1 2 Invalid Invalid	3 Invalid	4 Invalid		Value range 1-100			1 10kh 75%	2 20kh 80%	3 30kh 85%	4 40kh 90%
5 Invalid	7 Invalid	8 Invalid					5 Invalid	6 Invalid	7 Invalid	8 Invalid
orking hours		0 hour(s)					Working ho	ours		0 hour(s)
Read	w	rite					Rea	d	v	Vrite

Tips:

Working hours : Ability to calculate the working hours of a single driver.

### **CLO FUNCTION INSTRUCTION**

#### 1.Open APP, and Find the CLO function

< 12CC	۵	< 12CC	ර
System failure level	100.0%	System failure level	100.0% >
Short address	0	Short address	0 >
Groups		Groups	>
Fade time	2.0s	Fade time	2.0s >
Fade rate	5.6steps/s	Fade rate	5.6steps/s >
Dimming curve	Logarithmic	Dimming curve	Logarithmic >
Scenes		Scenes	>
Target current	100.0mA	Target current	100.0mA >
Minimum current compensation	MASK	Minimum current compensation	MASK >
Constant lumen operating	Disabled	Constant lumen operating	Disabled >
Corridor	PD mode	Corridor	PD mode >
Set All Attribu	ites	Set All Attrit	butes
Read From the	NFC Drive	r Unlock it,and (	Click here



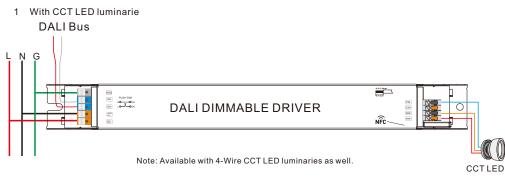
**Additional Remarks** 

1. Please make sure y	our APP version is 1.0.10 or higher.
2. Please make sure N	IFC driver's firmware is available with
CLO function.	

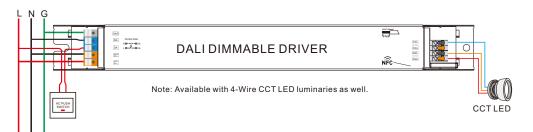
Graphic display

# Wiring Diagram

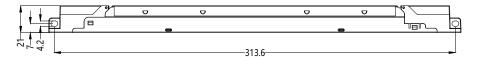
1. With DALI bus

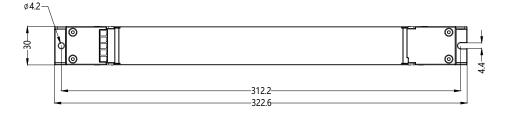


### 2. With PUSH dimmer



# With End Cap





### **AC Push Function**

#### 1) Click the button to switch ON/OFF

2) Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the

operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.

3) Double click the button to switch between brightness mode and color temperature mode.

4) Press and hold down the button to change color temperature under color temperature mode.

# **Product Dimension**

### Without End Cap

