Casambi 12W 2CH NFC Enabled LED Driver(Constant Current) CASAMBI 중 종 (은 남 소 (한 프로 SELV (Spars) PROHS

Important: Read All Instructions Prior to Installation

Function introduction



Product Data

	LED Channel	2
	DC Voltage	6-42V, Max. 50V
	Current	100-700mA via NFC tool; Min.current gear lower to 0.1mA, default 300mA
Output	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated Power	Max. 12W
	Voltage Range	220-240VAC/220-240VDC
	Absolute Voltage Range	196-264VAC/196-264VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.95 @ 230VAC Full load*
	Total Harmonic Distortion	THD ≤ 12% (@ full load / 230VAC)*
Input	Efficiency (Typ.)	>77% @ 230VAC full load*
	AC Current (Typ.)	0.1A Max.
	Inrush Current (Typ.)	Max. 3.96A at 230VAC; 90µs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	< 0.5W
	Anti Surge	L-N:2KV
	Dimming Interface	Casambi
Control	Dimming Range	0.01%-100%@ Max current
Control	Dimming Method	Amplitude/CCR dimming
	Dimming Curve	Linear/ Logarithmic optional

	Short Circuit	Yes, remove the fault conditions and re-power the device.
Protection	Over Current	Yes, remove the fault conditions and re-power the device.
	Over Temperature	Yes, remove the fault conditions and re-power the device.
	Working Temp.	-25℃ ~ +45℃
_ · _ ,	Max. Case Temp.	Tc=85℃
Environment	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40°C ~ +80°C, 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
0.11	MTBF	191350H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature
Others	Dimension	135x35x20mm (L*W*H)
	Warranty	5 Years

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

Casambi dimmable LED driver, works with Casambi network

+ 2 channels dimmable LED driver. Max. output power 12W

• 100-700mA current selectable via NFC program tool. Min.current gear lower to 0.1mA

• Class II power supply, full isolated plastic case

- High power factor and efficiency
- ON/OFF, Dimming and Tunable White control
- Amplitude/CCR dimming, smooth and deep dimming
- 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 NFC Programming devices

Note:

1) Do wiring according to the wiring diagram.

2) Recommend setting parameters without power-on the devices.

3) 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 3: Unlock device, enter parameters configuring page.

<	DALI Dim 2		<	DALI Dim 2	6		1	<			0	Optio	Options	Options	Options	Options	Options	Options	Options	Options	Options
Device Type Product Id	DALI DIM 0x01000001	Locked	Device Type Product Id		DALI DIM 0x01000001	Unlo	ck it	•			e level level										
Target current	300.0mA		Options		>			e			er on level em failure l		er on level em failure level								
			Target current		300.0mA >				Short		t address ps										
								0	Fade t Fade r												
								•	Dimmin	ļ	ig curve	ig curve	ig curve	ig curve	ig curve	ig curve	g curve	g curve	g curve	g curve	g curve
								•	Scenes												
								•	Target	su	rrent	rrent	rrent	rrent	rrent	rrent	irrent	irrent	rrent	rrent	irrent
								•	Low sid	e	curren	current err	current error c	current error co	current error co	current error comp	current error compen	current error compensa	current error compensat	current error compensatio	current error compensatio
s	et All Attributes		se	et All Attributes					Unselec				A.H.			AII 0	All Cole	All Colort	All Coloct /	All Colort Al	All Select All

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.

<	DALI Dim 2	ත්
Device Type	DALID	IM
Product Id	0x010000	01
Options		>
Max level	100.0%	>
Min level	0.100%	>
Power on level	MASK	>
System failure I	evel MASK	>
Short address	0	>
Groups		>
Fade time	Extended fade	>
Fade rate	358steps/s	>
Dimming curve	Logarithmic	>
Scenes		>
_		
Se	t All Attributes	

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

Device	0 1	0100 0.711101 0	otting, prodoo ou	e ine concerce coningu			
DALI Dim DALI DIM	>	Cancel Target current	Save	< DALI Dim	2 යි	< DALI Dim	2
CCT DALI CCT	>		300.0mA	Options	>	Options	
Dim 2	>	3000	1=0.1mA	Max level	100.0% >	Max level	
		Value range 1000-50000		Min level	0.100% >	Min level	
				Power on level	MASK >	Power on level	
				System failure level	MASK >	System failure level	
				Short address	0.>	Short address	
				Groups	>	Groups	
				Fade time	5.7s >	Fade time	
				Ready to W	/rite		
					`	\bigcirc	
)	\checkmark	
				Touch the device with the b device.	back of the mobile	Successfu	
Gevices	88 More						
		Read	Write	Cancel			

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



Add config	guration
Cancel	Save

	Scenes
Set All At	

Tips

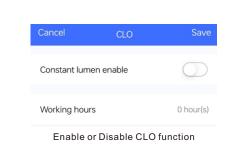
1. NFC function doesn't require any power driver.

2. Many functions can be configured by NFC. Kindly check your desired functions.

CLO FUNCTION INSTRUCTION

1.Open APP, and Find the CLO function

	6
System failure level	100.0%
Short address	0
Groups	
Fade time	2.0s
ade rate	5.6steps/s
imming curve	Logarithmic
Scenes	
arget current	100.0mA
imum current	MASK
onstant lumen operating	Disabled
	PD mode



Additional Remarks

Write Consecutively	\bigcirc
Advanced	>
App Version	1.0.10
Check for Update	>
Privacy Policy	>

1. Please make sure your APP version is 1.0.10 or higher.

2. Please make sure NFC driver's firmware is available with **CLO** function.

Wiring Diagram

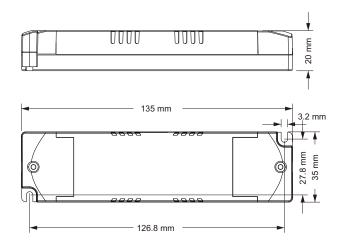
88 More

Configurations



Note: Available with 4-Wire CCT LED as well.

Product Dimension



2.Enter CLO Setting homepage

ancel	CL	.0	Save
review			
tput Level (%)			
00			
80			
60	Inva	alid	
0			
0			
)			
	Operating	Time (kh)	
1 Invalid	2 Invalid	3 Invalid	4 Invalid
5 Invalid	6 Invalid	7 Invalid	8 Invalid
orking ho	urs		0 hour(s)
Rea	н	v	/rite
able	CLO	funct	ion

Tips:

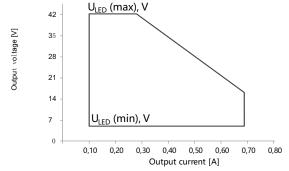
10	kh
Value range 1-100	
Level	
75	%
Value range 1-100	

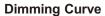
Cancel	CL	-0	Save
Preview			
Output Level (%)			
100			
80			
60			
40			
20			
0 10	20 30	40	
	Operating	Time (kh)	
Times and	Levels		
1	2	3	4
10kh	20kh	30kh	40kh
75%	80%	85%	90%
		_	
5 Invalid	6 Invalid	7 Invalid	8 Invalid
Working h	ours		0 hour(s)
			folk-
Rea	d	v	Vrite
-	desire		e and l
phicu	lisplay	/	

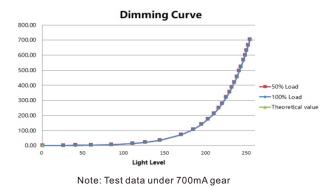
Working hours : Ability to calculate the working hours of a single driver.

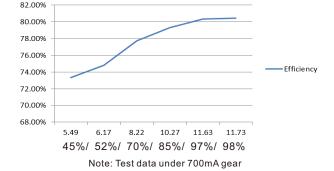
Operating window

Driver Performance



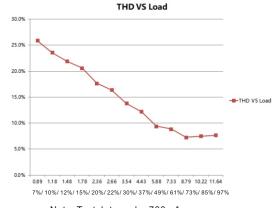






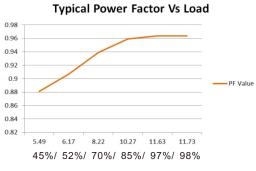
Typical Efficiency Vs Load

Driver Performance



Note: Test data under 700mA gear

Driver Performance



Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C	•••	
SRP-CS9105N-12CC100-700	100 – 700 mA	Тс	50 °C	60 °C	65 °C	•••	85 °C
SRP-CS9105N-12CCT100-700	0 100 – 700 mA	Lifetime	> 100,000 h	> 100,000 h	> 100,000	h	> 40,000 h

The LED driver is designed for a lifetime stated above under reference conditions. The relation of tc to ta temperature depends also on the luminaire design.

Note: Test data under 700mA gear

MCB Load Quantity

I (A)

Ipeak

1/2 Ipeak

Δt

Module Number	Ipeak	Twidth	Max.quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-CS9105N-12CC100-700	3.96A	90µs	37	49	60	75	94	63	81	100	125	156	80	104	128	160	200
SRP-CS9105N-12CCT100-700	3.96A	90µs	37	49	60	75	94	63	81	100	125	156	80	104	128	160	200

Note:

T (ms)

1. Those MCB parameters are based on ABB S200 series circuit breakers.

 $2.For \mbox{ different brands and models of miniature circuit breakers, the quantity of drivers will have difference.$

3.Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.

4.When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.

5.Type C MCB's are strongly recommended to use with LED lighting

Update log

Date	Version	Update content	Update by
2025-3-4	V1.0	Initial Version	Jerry

Note: Subject to change without notice. Please contact us if you have any questions.