

AURA+ ALCC012/20-SR LED DRIVER SERIES

DALI-2 DIMMABLE CONSTANT CURRENT LED DRIVER

ALCC012-00350-040-DALI-SR
ALCC020-00700-040-DALI-SR

FEATURES

- Single channel output, output current level selectable by DIP switch
- Meet DALI Protocol IEC 62386-207 Ed2.0
- Support Touch-DIM function
- Built-in active PFC function
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load

APPLICATION

- Suitable for indoor LED lighting application, such as down lights and spot lights



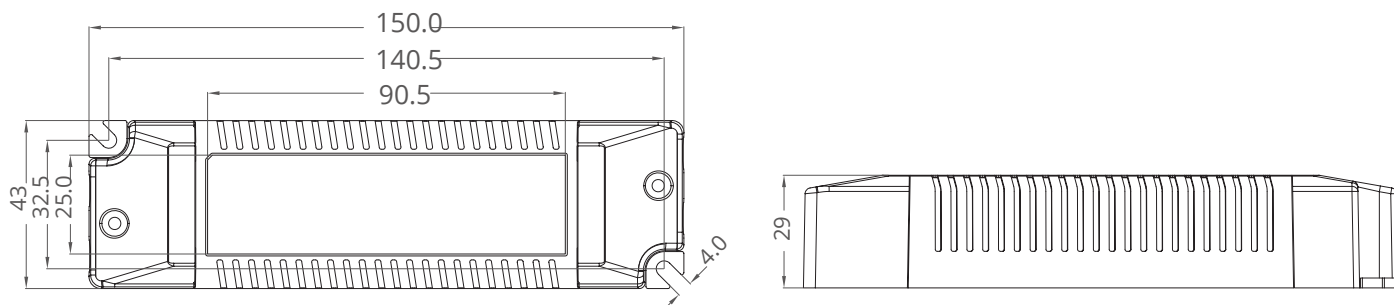
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Technical Data

Product Code		ALCC012-00350-040-DALI-SR			ALCC020-00700-040-DALI-SR		
Output	DIP Switch Technical Values	Current	Voltage	Power	Current	Voltage	Power
		200mA	9-40V	8.0W	350mA	9-40V	14.0W
		250mA	9-40V	10.0W	500mA	9-40V	20.0W
		300mA	9-40V	12.0W	550mA	9-36V	19.8W
		350mA	9-34V	11.9W	700mA	9-28V	19.6W
	Channel	1					
	No load output voltage	50V Max					
	Current Tolerance	±5%					
	Ripple Current	<3%					
	Turn-on delay time	<1s @230VAC			<1.5s @230VAC		
Input	Voltage	220VAC-240VAC					
	Frequency Range(Hz)	50/60Hz					
	Efficiency	80%@230VAC,Full load			85%@230VAC,Full load		
	Power Factor	≥0.95@230VAC,Full load					
	THD(full load)	<10%@230VAC, Full load					
	AC Current Max	0.07Amax@230VAC			0.12Amax@230VAC		
	Standy Power	<0.5W					
	Inrush Current	Cold start,18A (twidh=14us measured at 50% Ipeak) @230VAC					
	Protections	Short Circuit	Close output recovers automatically after fault removed.				
Over Load		When the output voltage is exceeded, the output current decreases and, recovers automatically when the load is reduced.					
Dimming	Dimming Type	DALI /Touch DIM					
	Dimming Range	0.1%-100% Dimming to off					
Environment	IP rating	IP20					
	Working temp. humidity	-20 ~+50℃					
	Storage temp.	-40 ~+85℃ ; 20-90%RH					
	Tc.	+90℃					

Dimensions



Lenght	150mm
Width	43mm
Height	29mm
Weight	125g
Material	PC
Carton Size	50PCS/Carton; 6.5kg±5%/Carton; Carton Size: 319*254*136mm(L*W*H)

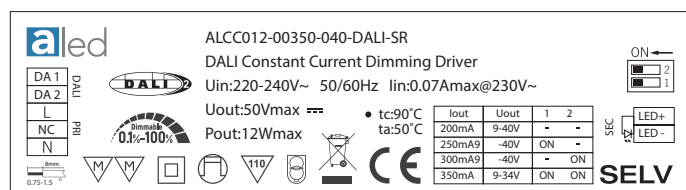
Safety

Product Code	ALCC012-00350-040-DALI-SR	ALCC020-00700-040-DALI-SR
Surge	L-N:1kv	
Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA	
DALI Standard	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC62386-207 Ed 2.0	
Safety Standards	EN61347, GB19510	IEC/EN61347-1, IEC/EN61347-2-13, GB19510.1, GB19510.14,
EMC Emission	EN55015, EN61000-3-2	EN50515, EN61000-3-2 Class C, IEC61000-3-3, GB/T17743
EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547	EN61000-4-2, 3, 4, 5, 6, 8, 11 EN61547, GB17625.1

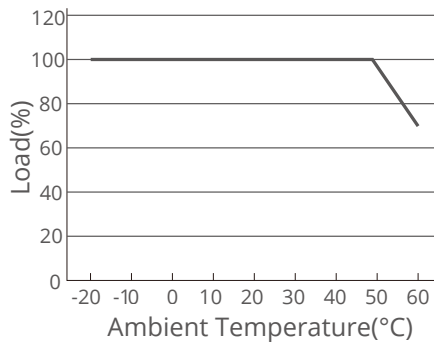
Warranty and Lifetime

Lifetime	50,000h@tc:70
Switch Cycle	>100,000 times
Warranty	5 years

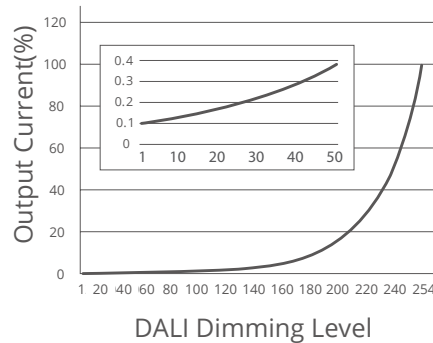
Label



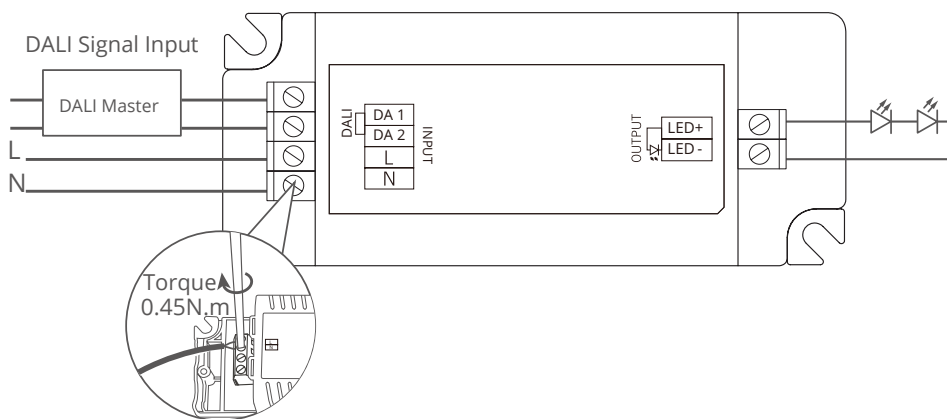
Derating Curve



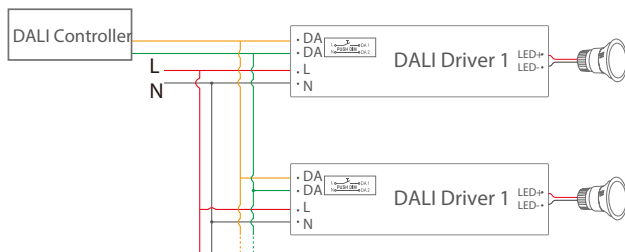
Dimming Curve



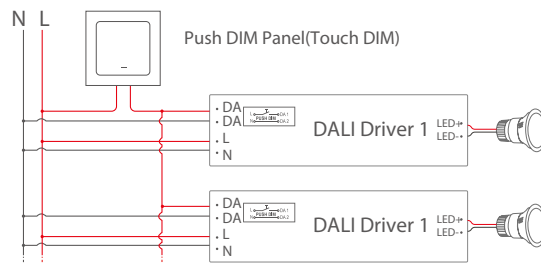
DALI Wiring



DALI Diagram



Push DIM (Touch DIM) Diagram









Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

Push DIM Function







1. Press the Touch DIM (Push DIM) switch for 8s or more, the driver can be controlled via Push DIM switch.
2. Short press the Touch DIM (Push DIM) switch (<0.5s) to control the lamp on or off.
3. Long press the Touch DIM (Push DIM) switch (>0.5s) to dim the brightness of light. The dimming direction will change every time after pressing switch.
4. Double-click the Touch DIM (Push DIM) switch (<0.3s), then all lamps connected on the device will be set maximum brightness.
5. The brightness adjustment range is 1%-100%, and the light can be turned off through short pressing when doing the adjustment with long pressing Push DIM switch.
6. With the Power off memory function, the power-down state will be recovered when power on again.

Current Selection Table

This is a multi-current dimming driver, output current level selectable by DIP S.W., as the following:

ALCC012-00350-040-DALI-SR					
					
ON	OFF	1 200mA	2 250mA	3 300mA	4 350mA
		9-40V	9-40V	9-40V	9-34V

Remark: Function default setting is:
200mA (@switch are all OFF state)

ALCC020-00700-040-DALI-SR					
					
ON	OFF	1 350mA	2 500mA	3 550mA	4 700mA
		9-40V	9-40V	9-36V	9-28V

Remark: Function default setting is:
350mA (@switch are all OFF state)

Max. quantity of drivers per miniature circuit breaker

MCB type	B16	C16
Installation	1.5mm ²	1.5mm ²
Quantity	36	45

Max. quantity of drivers per miniature circuit breaker

Distance	5m/16ft	10m/32ft	20m/65ft	30m/98ft
Cable Section	0.5mm ² /AWG20	0.5mm ² /AWG20	1mm ² /AWG17	2.5mm ² /AWG13

Cautions

1. This product should be installed by qualified personnel.
2. This product is non-waterproof, need to avoid sun and rain. In case of outdoor use, please ensure it is mounted in a waterproof enclosure.
3. Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.
4. Please make sure LED power supply output voltage, current is used to meet the product requirements.
5. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
6. Due to safety concerns, PVC or rubber cord of 0.75-2.5mm² is recommended for input and output terminal(s) (excluding signal terminals). Flat power cord is not suitable. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
7. In case of malfunction, do not repair it yourself.