

AURA+ ALCC012/20 TUNABLE WHITE LED DRIVER SERIES

TWO CHANNEL DALI-2 CONSTANT CURRENT LED DRIVER

ALCC012-2-00350-042-DALI-SR
ALCC020-2-00700-042-DALI-SR

FEATURES

- Two channel output, output current level selectable by DIP switch
- High efficiency up to 85 %
- Built-in active PFC function
- Protections: Short circuit, over load, over Voltage

APPLICATION

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



CE SELV

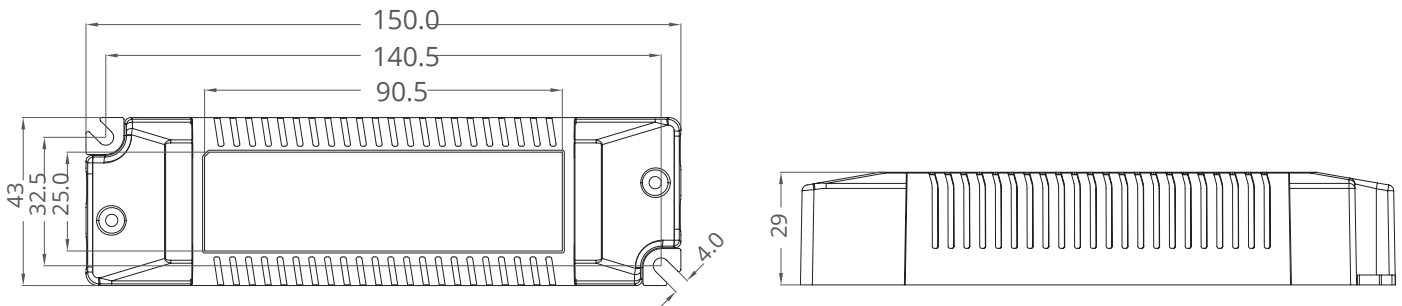


Technical Data

Product Code		ALCC012-2-00350-042-DALI-SR			ALCC020-2-00700-042-DALI-SR		
Output	DIP Switch Technical Values	Current	Voltage	Power	Current	Voltage	Power
		*120mA	9-42V	5.04W	350mA	9-42V	14.7W
		*150mA	9-42V	6.3W	400mA	9-42V	16.8W
		*180mA	9-42V	7.56W	450mA	9-42V	18.9W
		*200mA	9-42V	8.4W	500mA	9-40V	20W
		240mA	9-42V	10.1W	550mA	9-36V	19.8W
		270mA	9-42V	11.34W	600mA	9-33V	19.8W
		300mA	9-40V	12W	650mA	9-30V	19.5W
	350mA	9-34V	11.9W	700mA	9-28V	19.6W	
	Channel	2					
	No load output voltage	60V Max			50V max		
	Current Tolerance	±5%					
	Turn on delay Time	<1s, at230Vac					
Ripple Current	<3%						
Input	Efficiency	>83%@230VAC,Full load			>86%@230VAC, Full load		
	Voltage	220VAC-240VAC					
	Frequency Range(Hz)	50/60Hz					
	Power Factor	≥0.95@230VAC,Full load					
	THD(full load)	<10%@230VAC, Full load					
	AC Current Max	0.06Amax@230VAC			0.12Amax@230VAC		
	Standby Power	<0.5W					
	Inrush Current	Cold start,15A(twidth=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.					
Over Voltage		Close output, recovers automatically after fault removed					
Dimming	Dimming Type	DALI /Touch DIM					
	Dimming Range	0.2%-100% Dimming to off			5%-100% Dimming to off		
	Color Temperature	2700K-6500K			3000K-6000K		
Environment	IP rating	IP20					
	Working temp.	-20 ~+50°C					
	Storage temp.	-40 ~+85°C					
	Tc.	+80°C					
	Relative humidity	20~90% RH					

*Current Tolerance: 120mA ±8%, 150mA ±8%, 180mA ±7%, 200mA ±7%

Dimensions



Lenght	150mm
Width	43mm
Height	29mm
Weight	125g
Carton Size	50PCS/Carton; 6.65kg±5%/ Carton Size: 319*254*136mm(L*W*H)

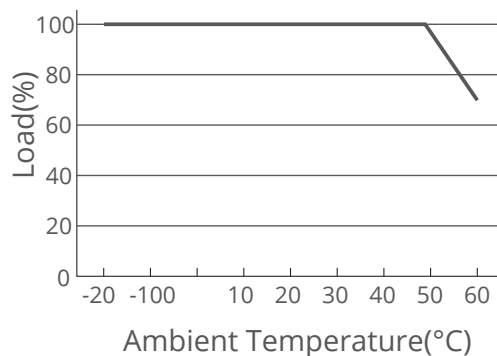
Safety

Surge	L-N:1KV
Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA
DALI Standard	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC 62386-209: 2009, DALI 1.0
Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13, GB19510.1, GB19510.14,
EMC Eission	EN50515, EN61000-3-2 Class C, IEC61000-3-3, GB/T17743
EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11 EN61547, GB17625.1

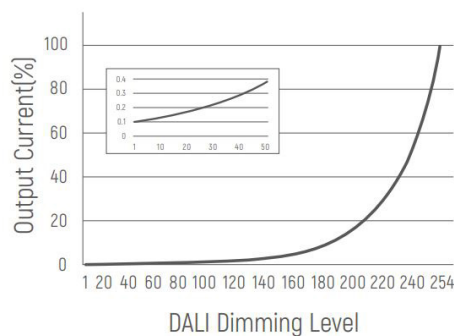
Warranty and Lifetime

Lifetime	50,000h@tc:70
Switch Cycle	>25,000 times
Warranty	5 years

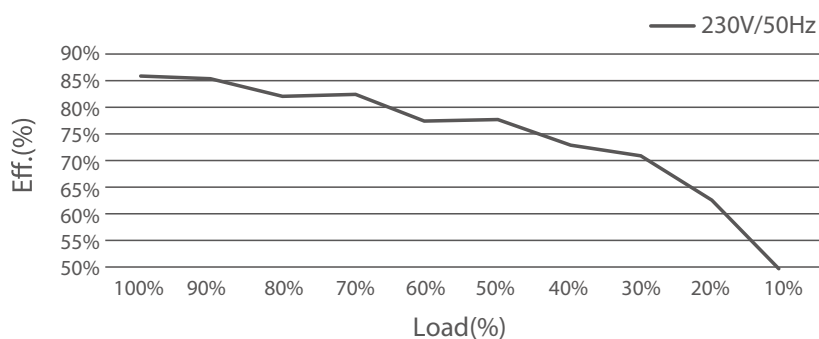
Derating Curve



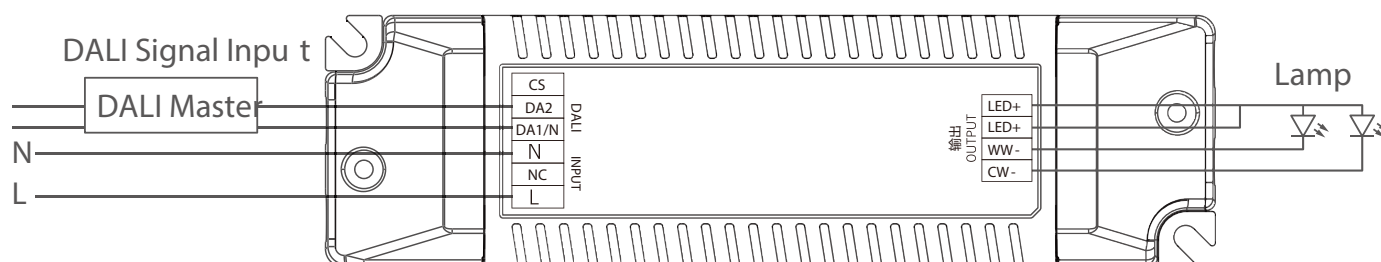
Dimming Curve



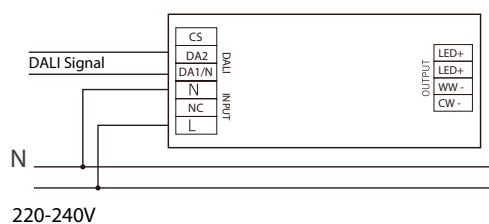
Efficiency Curve



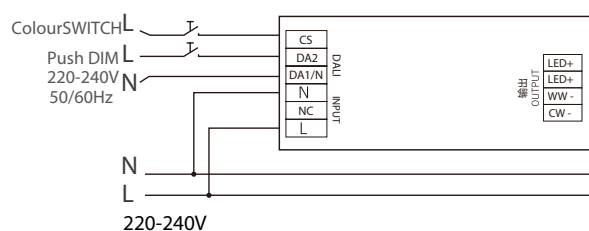
Wiring Diagram



DALI Diagram



Push DIM (Touch DIM) Diagram



Push DIM Function

1. Press and hold the push DIM switch for 8s or more to enter the push dimming mode.
2. Press the push DIM switch briefly to turn on or off the lamp and return to the last memory state.
3. Press and hold the push DIM switch for dimming, stop at the current brightness when releasing, and adjust in the opposite direction every time, with the dimming range of 5% - 100%
4. Double click the push DIM switch to turn on the lamp to the brightest and cool light (this function is also used to adjust the consistency of multiple power supplies in the same circuit)
5. Colour switch is valid only after entering push DIM mode.
6. Press colour SWITCH briefly to set the color temperature mode, with 9 values between 2,700 and 6,500K.
7. Long press Colour SWITCH can continuously adjust the color temperature. Every long press, the color temperature will be adjusted in the opposite direction, with the color temperature range of 2700-6500K
8. Double click colour switch, turn on the lamp to the brightest, cold light (this function is also used to adjust the consistency of multiple power supplies in the same circuit)

Current Selection Table

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

ALCC012-2-00350-042-DALI-SR

		1	2	3									
ON	OFF	120mA	150mA	180mA	200mA	240mA	270mA	300mA	350mA				
		9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-40V	9-34V				

Remark: Function default setting is:

120mA (@switch are all OFF state)

ALCC020-2-00700-042-DALI-SR

		1	2	3									
ON	OFF	*350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA				
		9-42V	9-42V	9-42V	9-40V	9-36V	9-33V	9-30V	9-28V				

Remark: Function default setting is:

350mA (@switch are all OFF state)

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 water proof 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.