

AURA+ ALCC010 LED DRIVER SERIES

DALI/TOUCH DIM (PUSH DIM) DIMMABLE CONSTANT CURRENT LED DRIVER

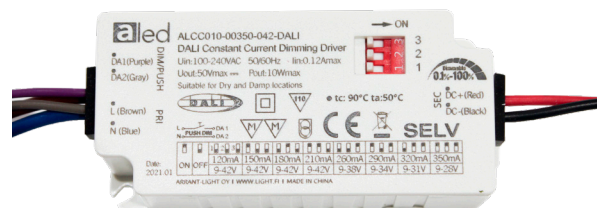
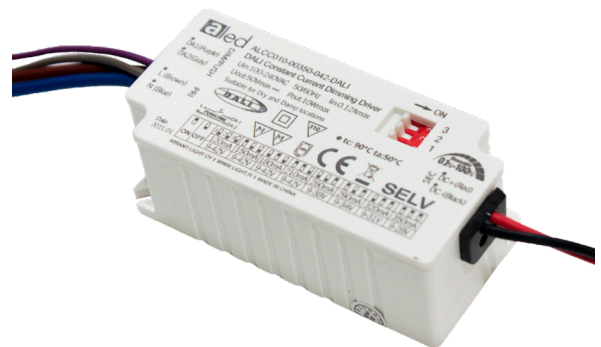
ALCC010-00xxx-0xx-DALI

FEATURES

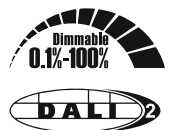
- Single channel output, output current level selectable by DIP S.W.
- Support DALI dimming function, Touch DIM (Push DIM) function
- Input voltage of 120-277VAC
- Dimming range: 0.1-100%
Dimming is smooth, no flicker
- Half Potted Electronics
- Protections: Short circuit, Over load, Over voltage

APPLICATION

- Suitable for indoor LED lighting application



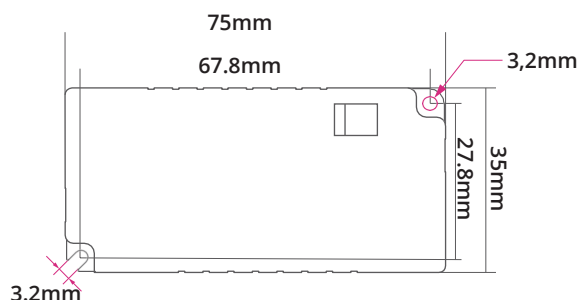
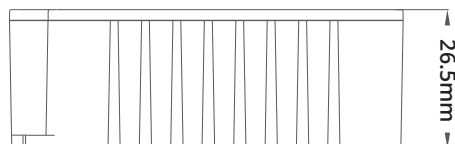
**Class 2
SELV**



Technical Data

Product Code		ALCC010-00350-042-DALI			ALCC010-00700-021-DALI		
Output	DIP Switch Technical Values	Current	Voltage	Power	Current	Voltage	Power
		120mA	9-42V	5.04W	350mA	2-21V	7.35W
		150mA	9-42V	6.3W	400mA	2-21V	8.4W
		180mA	9-42V	7.56W	450mA	2-21V	9.45W
		210mA	9-42V	8.82W	500mA	2-20V	10W
		260mA	9-38V	9.88W	550mA	2-18V	9.9W
		290mA	9-34V	9.86W	600mA	2-16V	9.9W
		320mA	9-31V	9.92W	650mA	2-15V	9.75W
	350mA	9-28V	9.8W	700mA	2-14V	9.8W	
	Channel	1					
	No load output voltage	58V Max					
	Frequency	1KHz Min PWM					
	Current Tolerance	±5%					
	LF current ripple(<120Hz)	<3%					
Input	Voltage	120VAC-277VAC					
	Frequency	50/60Hz					
	Efficiency	80%@120VAC, Full load			79%@120VAC, Full load		
	PF	0.98@120VAC, Full load					
	THD(full load)	<10%@120VAC, Full load					
	Current	0.12A max @120VAC					
	Inrush Current	Cold start, 30A@120VAC					
Protections	Over Voltage	Hiccup, recovers after fault condition is removed					
	Short Circuit	Close output, recovers automatically after fault removed					
	Over load	Hiccup, recovers after fault condition is removed					
Dimming	Dimming type	DALI/Touch DIM (Push DIM)					
	Dimming range	0.1%-100% Dimming to off					
Environment	IP rating	IP20					
	Working temp.	-20 ~+50°C					
	Tc.	+90°C					
	Relative humidity	20~90% RH					

Dimensions



Lenght	75mm
Width	35mm
Height	26.5mm
Lenght of the wires	150mm
Weight	96g
Material	PC

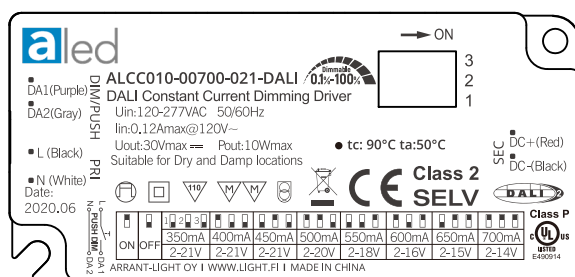
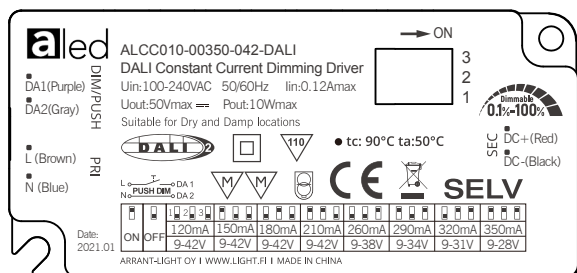
Safety

Surge	L-N:1KV
Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA; I/P-Gnd: 1500VAC/1min/5mA; O/P-Gnd: 500VAC/1min/5mA
Safety standards	UL8750/UL1310/CSA25013, CSA class P
EMI Eission	EN55015, EN61000-3-2 Class C, IEC61000-3-3
EMC Immunity	FCC class B(120V)/class A(277V)

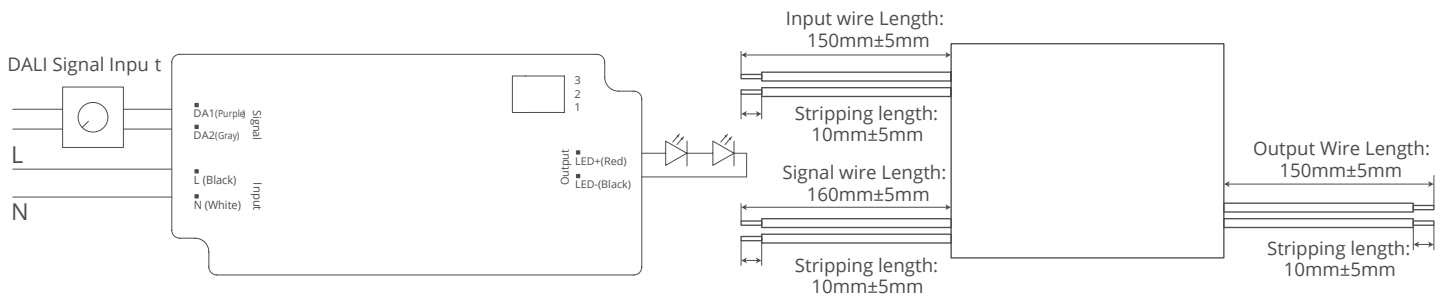
Warranty and Lifetime

Lifetime	50,000h@tc:85
Switch cycle	>25,000 times

Safety Labels

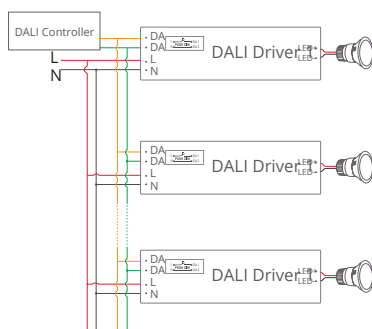


Wiring Diagram

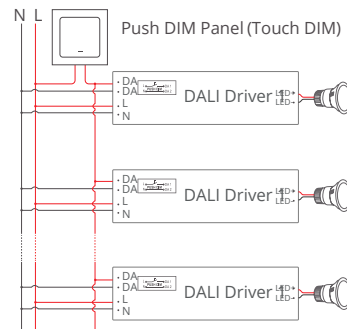


DALI and Touch DIM Diagram

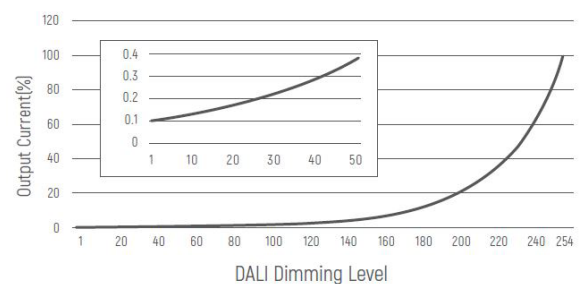
DALI Diagram



Touch DIM(Push DIM) Diagram



Dimming Curve



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:

ALCC010-00350-042-DALI												ALCC010-00700-021-DALI											
ON	OFF	1	2	3								ON	OFF	1	2	3							
		120mA	150mA	180mA	210mA	260mA	290mA	320mA	350mA					350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA		
		9-42V	9-42V	9-42V	9-42V	9-38V	9-34V	9-31V	9-28V					2-21V	2-21V	2-21V	2-20V	2-18V	2-16V	2-15V	2-14V		
Remark: Function default setting is: 120mA (@switch are all OFF state)												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.