

## AURA+ ALCC010 LED DRIVER SERIES

### 3-IN-1 DIMMABLE CONSTANT CURRENT LED DRIVER

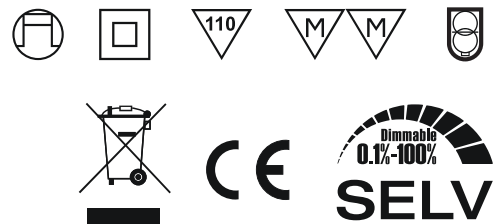
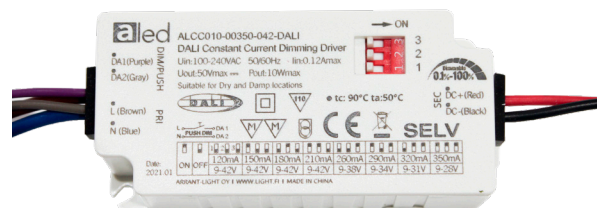
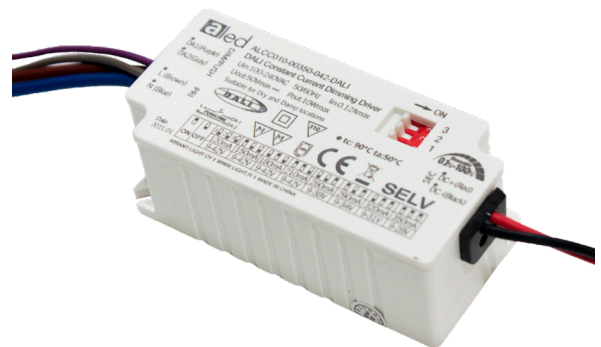
ALCC010-00xxx-0xx-010V

#### FEATURES

- Single channel output, output current level selectable by DIP S.W.
- Support 3-in-1 dimming mode: 0/1-10V active signal, adjustable resistance, PWM (A model)
- Input voltage of 100-240VAC (350mA) and 120-277VAC (700mA)
- Dimming range: 0.1-100%  
Dimming is smooth, no flicker
- Half Potted Electronics
- Protections: Short circuit, Over load, Over voltage

#### APPLICATION

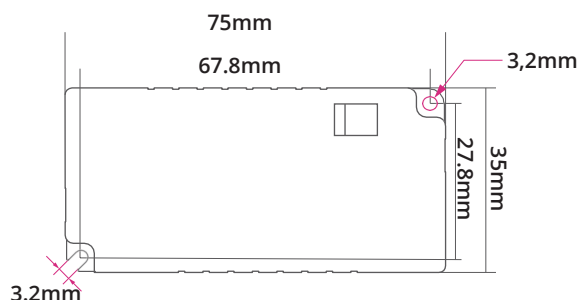
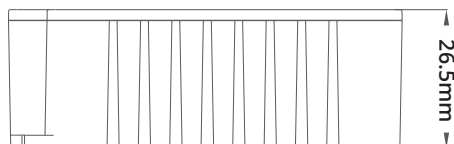
- Suitable for indoor LED lighting application



## Technical Data

Product Code		ALCC010-00350-042-010V			ALCC010-00700-021-010V		
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	60V Max			58V Max		
	Frequency	1KHz Min PWM					
	Current Tolerance	±5%					
	LF current ripple(<120Hz)	<3%					
Input	Voltage	100VAC-240VAC			120VAC-277VAC		
	Frequency	50/60Hz					
	Efficiency	78%@230VAC, Full load			78%@120VAC, Full load		
	PF	0.94@230VAC, Full load			0.98@120VAC, Full load		
	THD(full load)	<10%@120VAC, Full load					
	Current	0.12A max @100VAC			0.13A max @120VAC		
	Inrush Current	Cold start, 30A@230VAC					
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	0/1-10V(Type A)					
	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

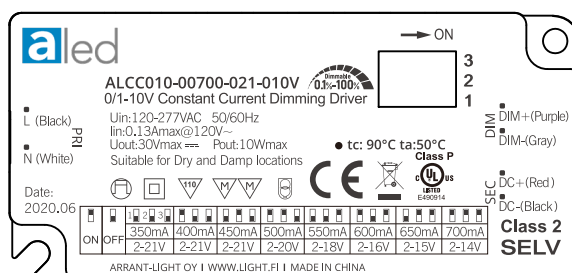
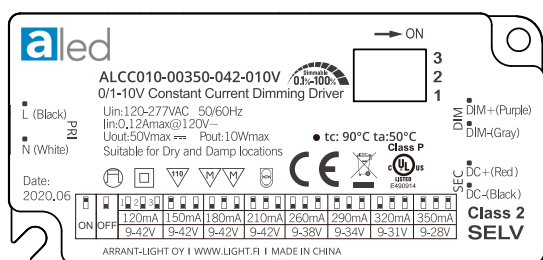
### Safety

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)

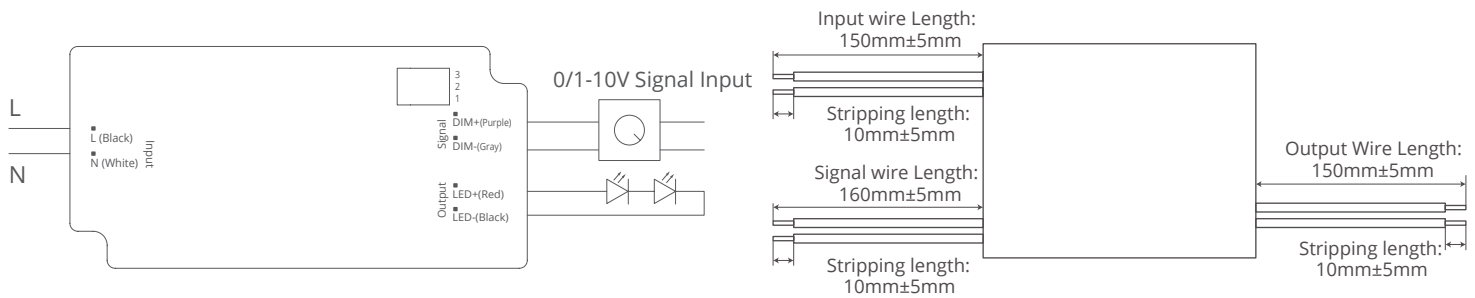
### Warranty and Lifetime

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

## Safety Labels

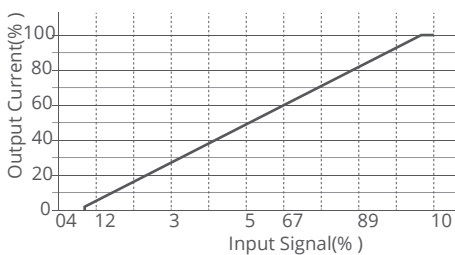


## Wiring Diagram



## Dimming Curve

Dimming Curve



## Current Selection Table

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

ALCC010-00350-042-010V

		1	2	3																							
ON	OFF	120mA	150mA	180mA	210mA	260mA	290mA	320mA	350mA																		
		9-42V	9-42V	9-42V	9-42V	9-38V	9-34V	9-31V	9-28V																		

Remark: Function default setting is:

120mA (@switch are all OFF state)

ALCC010-00700-021-010V

		1	2	3																							
ON	OFF	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA																		
		2-21V	2-21V	2-21V	2-20V	2-18V	2-16V	2-15V	2-14V																		

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 0.75-2.5mm<sup>2</sup> 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.