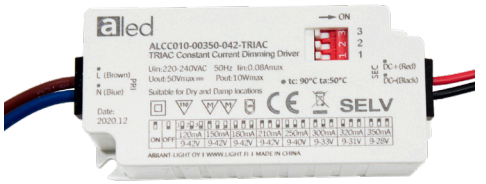
DATASHEET
24.2.2021

AURA+ ALCC010 LED DRIVER SERIES

TRIAC DIMMABLE CONSTANT CURRENT LED DRIVER

ALCC010-00xxx-04x-TRIAC



FEATURES

- Single channel output, output current level selectable by DIP Switch
- Support Leading edge (Triac) and Trailing edge (ELV) dimmer
- Input Voltage range 220-240VAC
- Built-in active PFC function
- Class 2 power supply. Full protective plastic housing
- Half Potted Electronics
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, over voltage

APPLICATION

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

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Technical Data

Product Code		ALCC010-00350-042-TRIAC			ALCC010-00700-045-20-TRIAC		
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
		250mA	9-40V	10W	550mA	2-18V	9.9W
		300mA	9-33V	9.99W	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	50V Max					
	Turn On Delay Time	<1s, at 230Vac					
	Current Tolerance	±5%					
	Ripple Current	<3%					
Input	Voltage	220-240VAC					
	Frequency	50/60Hz					
	Efficiency	73%@230VAC, Full load			70%@230VAC, Full load		
	PF	0.93@230VAC, Full load			0.87@100VAC, Full load		
	Current	0.8A max@230VAC					
	Inrush Current	Cold start, 30A@230VAC					
Protections	Over Voltage	Hiccup, recovers after fault condition is removed.					
	Short Circuit	Shut down the output automatically recovers after faulty condition is removed.					
	Over load	Hiccups, self recovery after removing faults.					
Dimming	Dimming type	TRIAC					
	Dimming range	3%-100%					
Environment	IP rating	IP20					
	Working temp.	-20 ~+50°C					
	Storage Temp.	-40°C~85°C					
	Tc.	+90°C					
	Relative humidity	20~90% RH					

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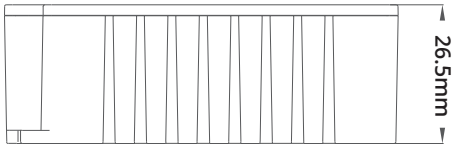
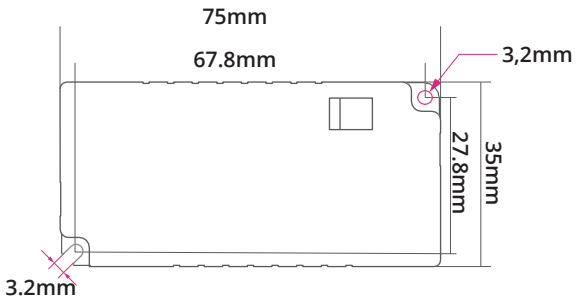
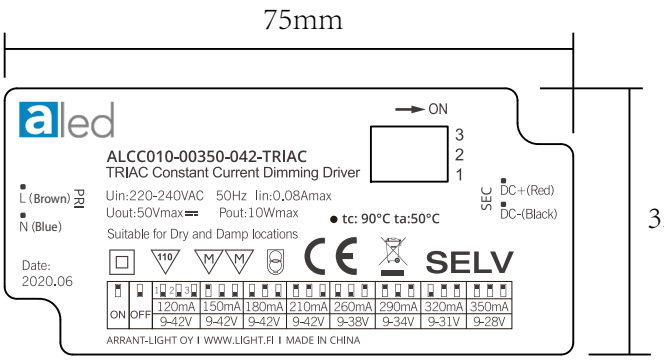
Dimensions

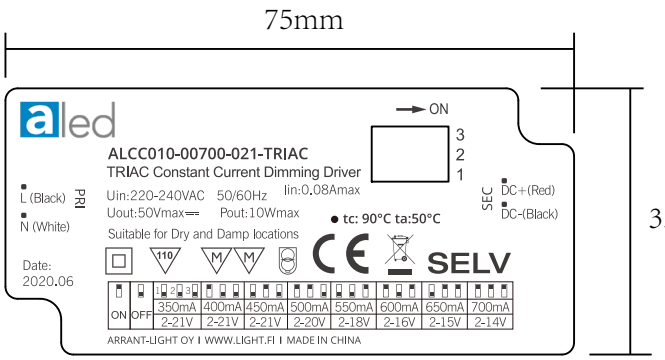




Lenght	75mm
Width	35mm
Height	26.5mm
Lenght of the wires	150mm
Weight	96g
Material	PC
Safety	
Surge	L-N:0.5kV;
Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA
Safety standards	EN61347-2-13
EMI Eission	EN55015
EMC Immunity	EN61000-3-3 EN61000-4-3 EN61000-4-4 EN61000-4-5
Warranty and Lifetime	
Lifetime	50,000h @tc:85°C
Switch cycle	>25,000 times

Safety Label





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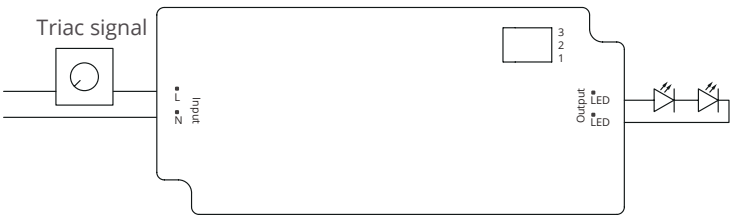
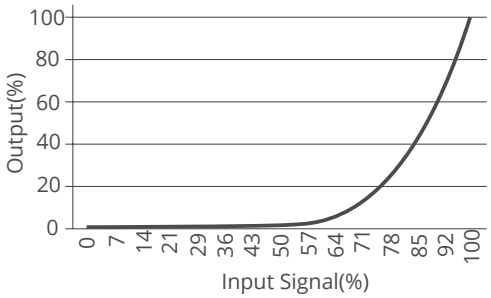
Wiring Diagram



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-TRIAC

ON/OFF	1 2 3							
	120mA	150mA	180mA	210mA	250mA	300mA	320mA	350mA
	9-42V	9-42V	9-42V	9-42V	9-40V	9-33V	9-31V	9-28V

Remark: Function default setting is:
120mA (@switch are all OFF state)

ALCC010-00700-045-TRIAC

ON/OFF	1 2 3							
	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)

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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. 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.

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