

# AURA+ ALCC020 LED DRIVER SERIES

## SMALL-SIZE CONSTANT CURRENT LED DRIVER WITH TRIAC DIMMING

### ALCC020-00700-045-TRIAC

#### FEATURES

- Single channel output, output current level selectable by DIP Switch
- Support Leading edge (Triac) and Trailing edge (ELV) dimmer
- Input Voltage 220-240VAC
- Built-in active PFC function
- Class 2 power supply. Full protective plastic housing
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, over voltage
- Small Size
- Half Potted Electronics
- Flicker Free
- IP20
- With Wires

#### APPLICATION

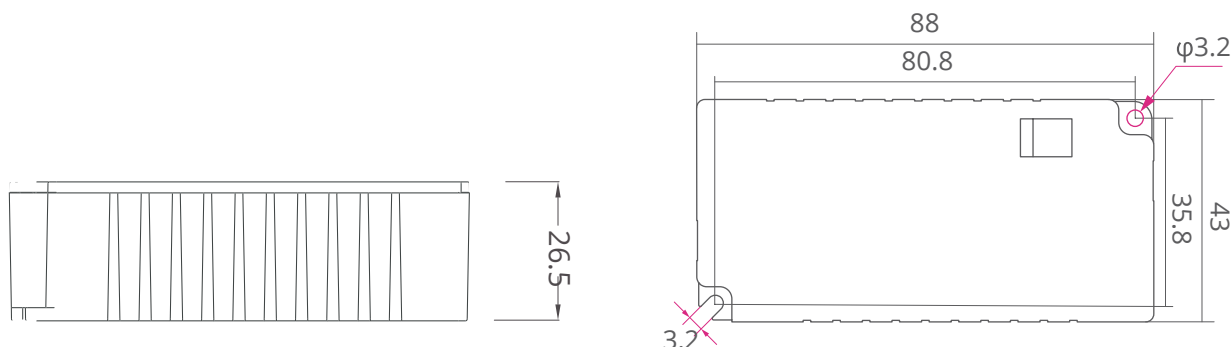
- Downlights, Panel Lights, Spotlights, Ceiling Lights, Decorative Lights, Floor Lights, Track Lights and Flood Lights



## Technical Data

Product Code		ALCC020-00700-045-TRIAC		
Output	DIP Switch Technical Values	Current	Voltage	Power
		350mA	9-45V	15.75W
		400mA	9-45V	18W
		450mA	9-44V	19.8W
		500mA	9-40V	20W
		550mA	9-36V	19.8W
		600mA	9-33V	19.8W
		650mA	9-30.7V	20W
		700mA	9-28.5V	20W
	Channel	1		
	No load output voltage	60V Max		
	Frequency	2 KHz PWM		
	Current Accuracy	±5%		
	LF current ripple(<120Hz)	<3%		
Input	Voltage	220-240VAC		
	Frequency	50/60Hz		
	Efficiency	79%@230VAC, Full load		
	PF	0.92@230VAC, Full load		
	THD(full load)	<20%@100VAC, Full load		
	Current	0.2A max @230VAC		
	Inrush Current	Cold start, 10A@120VAC		
Protections	Over Voltage	Hiccup, recovers after fault condition is removed		
	Over load	Hiccup, recovers after fault condition is removed		
	Short circuit	Close output, recovers automatically after fault removed		
Dimming	Dimming type	TRIAC		
	Dimming range	3%-100%		
Others	IP rating	IP20		
	Working temp.	-20 ~+50°C		
	Tc	+90°C		
	Relative humidity	20~90% RH		
	Lifetime	50,000h@tc:+70°C		
	Switch cycle	>25,000 times		
	Warranty	5 years		

## Dimensions

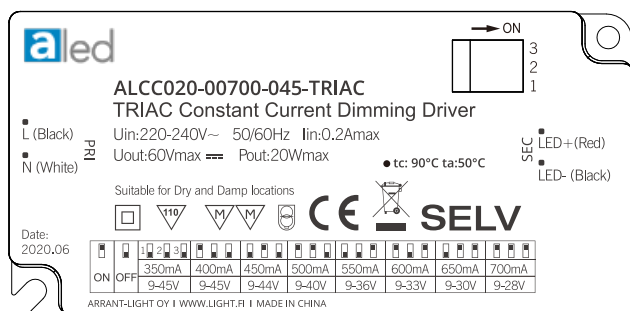


Lenght	88mm
Width	43mm
Height	26.5mm
Lenght of the wires	150mm
Stripping Length	10mm
Weight	105g
Packing Size	50pcs
Material	PC

### 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

## Safety Label



Triac signal

Output LED


























Input wire Length: 150mm±5mm

Stripping length: 10mm±5mm

Output Wire Length: 150mm±5mm

Stripping length: 10mm±5mm

## ALCC020-00700-045-TRIAC

		1 	2 	3 																				
ON	OFF	350mA		400mA	450mA	500mA	550mA	600mA	650mA	700mA														
		9-45V		9-45V	9-44V	9-40V	9-36V	9-33V	9-30V	9-28V														

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

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.
3. Please make sure LED power supply output voltage, current is used to meet the product requirements.
4. 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.
5. 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.
6. In case of malfunction, do not repair it yourself.