

AURA+ ALCC020 LED DRIVER SERIES

SMALL-SIZE CONSTANT CURRENT LED DRIVER WITH DALI DIMMING

ALCC020-00700-045-DALI

FEATURES

- Small Size
- DALI-2 and Push DIM Dimmable
- Single Channel Output, Output Current Selectable by DIP Switch
- Input Voltage 120VAC-277VAC
- Dimming Range from 0,1%
- Flicker Free
- · Half Potted Electronics
- IP20
- With Wires

APPLICATION

- Indoor use
- Great for Luminaires Which Need Super Small Sized LED Driver
- Downlights, Panel Lights, Spotlights, Ceiling Lights, Decorative Lights, Floor Lights, Track Lights and Flood Lights

















Class 2 SELV







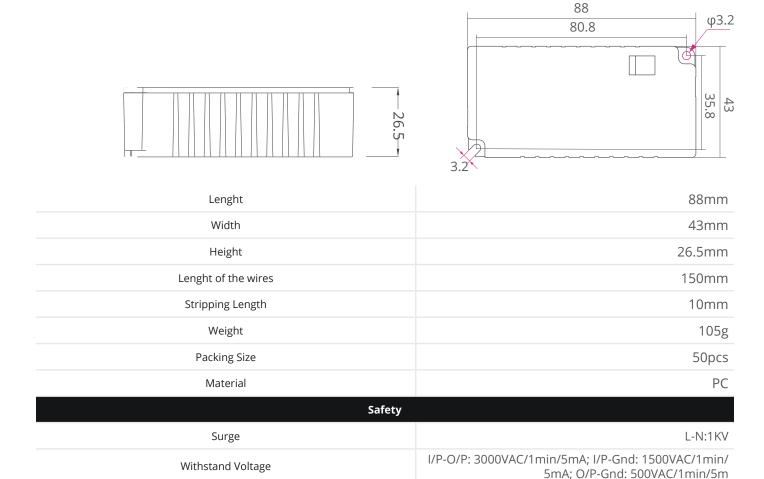
Technical Data

oduct Code	2	ALCC020-00700-045-DALI		
Output		Current	Voltage	Power
		350mA	9-45V	15.75W
		400mA	9-45V	18W
	DIP Switch Technical Values	450mA	9-44V	19.8W
		500mA	9-40V	20W
		550mA	9-36V	19.8W
		600mA	9-33V	19.8W
		650mA	9-30V	19.5W
		700mA	9-28V	19.6W
	Channel		1	
	No load output voltage	58V Max		
	Frequency	1KHz Min PWM		
	Current Accuracy	±5%		
	LF current ripple(<120Hz)	<3%		
Input	Voltage	120VAC-277VAC		
	Frequency	50/60Hz		
	Efficiency	85%@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		
	Standby Power	<1W		
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	DALI/Touch DIM (Push DIM)		
	Dimming range	0.1%-100% Dimming to off		
Others	IP rating	IP20		
	Working temp.	-20 ~+50°C		
	Tc.	+90°C		
	Relative humidity	20~90% RH		
	Lifetime	50,000h@tc:+85°C		
	Switch cycle	>25,000 times		
	Warranty	5 years		

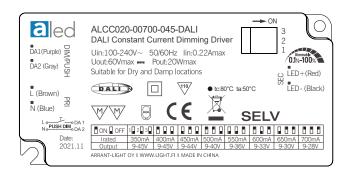




Dimensions



Safety Label



Safety standards

EMI Eission

EMC Immunity



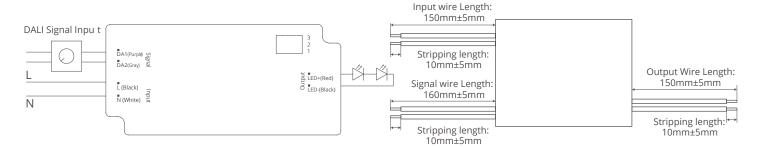
UL8750/UL1310/CSA25013,CSA class P

EN55015, EN61000-3-2 Class C, IEC61000-3-3

FCC class B(120V)/class A(277V)



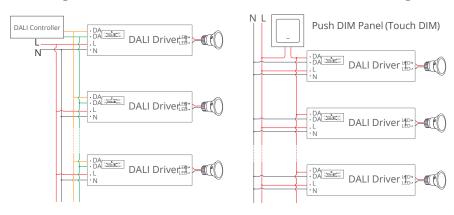
Wiring Diagram



DALI and Touch DIM Diagram

DALI Diagram

Touch DIM(Push DIM) Diagram



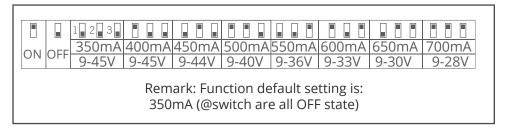
Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters

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

ALCC020-00700-045-DALI







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.

