

# AURA+ ALCC010/12/20-SR LED DRIVER SERIES

## TRIAC DIMMABLE CONSTANT CURRENT LED DRIVER

ALCC012-00350-040-TRIAC-SR  
ALCC015-00500-040-TRIAC-SR  
ALCC020-00700-040-TRIAC-SR

### FEATURES

- Single channel output, output current level selectable by DIP switch
- Support Leading edge (Triac) and Trailing edge (ELV) dimmer
- Dimming range from 40VAC to 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 temperature

### APPLICATION

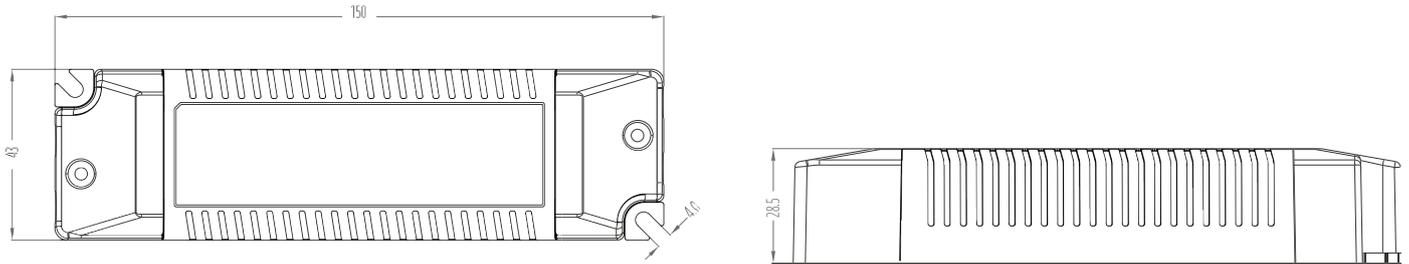
- Suitable for indoor LED lighting application, such as down lights and spot lights



## Technical Data

Product Code		ALCC012-00350-040 -TRIAC-SR			ALCC015-00500-040 -TRIAC-SR			ALCC020-00700-040 -TRIAC-SR		
Output	DIP Switch Technical Values	Current	Voltage	Power	Current	Voltage	Power	Current	Voltage	Power
		200mA	9-40V	8W	350mA	9-40V	14W	350mA	9-40V	14W
		250mA	9-40V	10W	400mA	9-37V	14.8W	400mA	9-40V	16W
		300mA	9-40V	12W	450mA	9-33V	14.85W	450mA	9-40V	18W
		350mA	9-34V	11.9W	500mA	9-30V	15W	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	48V Max									
Turn On Delay Time	<1s, at 230Vac									
Current Tolerance	±5%									
Current Ripple	<3%									
Input	Voltage	220VAC-240VAC								
	Frequency	50/60Hz								
	Efficiency	76%@230VAC, Full load			77%@230VAC, Full load			81%@230VAC, Full load		
	Power Factor	≥0.95@230VAC, Full load								
	THD (full load)	<20%@230VAC,full load								
	AC Current Max	0.08Amax@230VAC, Full load			0.1Amax@230VAC, Full load			0.12Amax@230VAC		
	Inrush Current	Cold start, 6A(twidth=30us measured at 50% Ipeak@230VAC)						Cold start, 15A @230VAC		
Protections	Short Circuit	Shut down the output automatically recovers after faulty condition is removed.								
	Over Temperature	Shut down the output, recovers automatically when temp. back to normal.								
	Over Load	When the output voltage is exceeded, decreases and, recovers automatically when the load is reduced.								
Dimming	Dimming Type	TRIAC/ELV								
Environment	IP Rating	IP20								
	Working temp. Hu-	-20°C~+50°C, 20-90%RH								
	Storage Temp.	-40°C~+85°C								
	Tc.	+75°C								

## Dimensions



Length	150mm
Width	43mm
Height	29mm
Weight	125g
Material	PC
Carton Size	50PCS/Carton; 6.75kg±5%/Carton; Carton Size: 374*314*166mm(L*W*H)

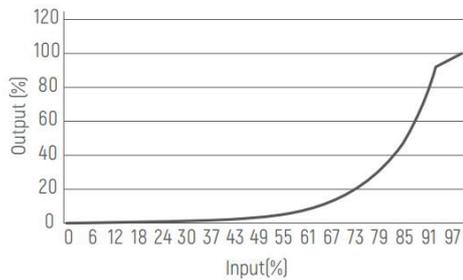
### Safety

Surge	L-N:500V
Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA
Safety standards	EN61347, GB19510
EMI emission	EN55015, EN61000-3-2
EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547

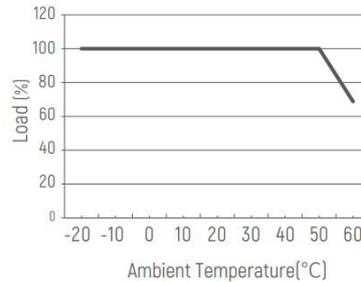
### Warranty and Lifetime

Lifetime	30,000h@ tc:75
Warranty	5 years

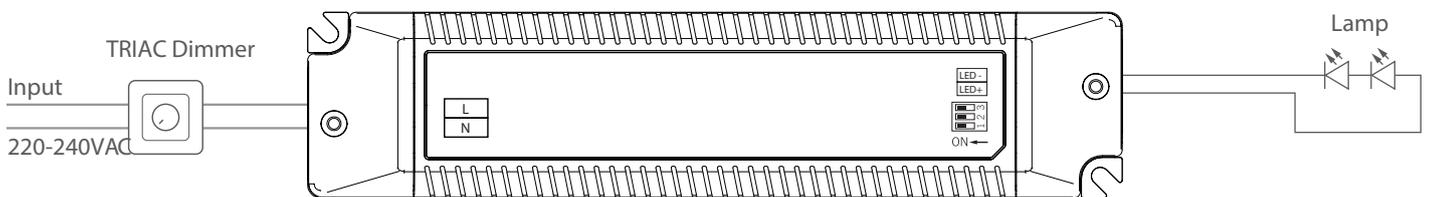
**Dimming Curve**



**Derating Curve**



**Wiring Diagram**



**Current Selection Table**

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

*ALCC012-00350-040-TRIAC-SR*

ON	OFF	1 2	3 4	5 6	7 8
		200mA	250mA	300mA	350mA
		9-40V	9-40V	9-40V	9-34V

Remark: Function default setting is: 200mA (@switch are all OFF state)

*ALCC015-00500-040-TRIAC-SR*

ON	OFF	1 2	3 4	5 6	7 8
		350mA	400mA	450mA	500mA
		9-40V	9-37V	9-33V	9-30V

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

*ALCC020-00700-040-TRIAC-SR*

ON	OFF	1 2 3	4 5 6	7 8 9	10 11 12	13 14 15	16 17 18	19 20 21	22 23 24
		350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
		9-40V	9-40V	9-40V	9-40V	9-36V	9-33V	9-30V	9-28V

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.