

ILDRCVA103

Summary


ILDRCVA103 is a constant voltage mode output LED driver. The driver supports leading edge (Triac) and trailing edge (ELV) dimmer, and can be compatible with the systems of various brands (Philips, Panasonic, Lutron, Simon, ABB, Siemens,Dalitek etc.) to achieve a smooth dimming effect.


Product Feature


- Single channel constant voltage output,1A Max
- Support Leading edge (Triac) and Trailing edge (ELV) dimmer
- Dimming range from 40VAC to 240VAC
- Class 2 power supply. Full protective plastic housing
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, over temperature
- Suitable for constant voltage LED lighting application, such as LED strip, wall washer, in-Ground lamps, flood light, and so on





Application


Wall Washer


LED Strip Light


LED Tube


Underground Light

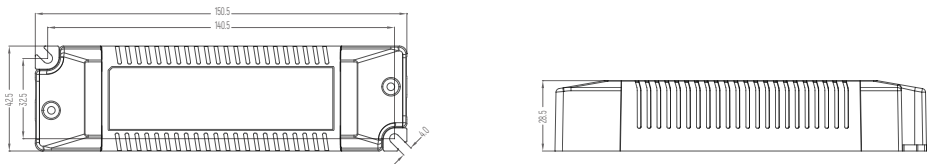

AR111 Venture Light



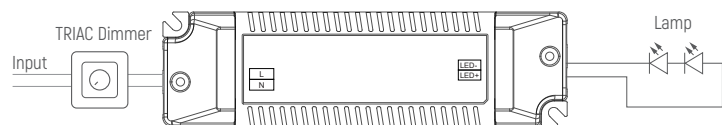
Technical Parameters

Model	ILDRCVA103	
Input	Efficiency	83%@230VAC, Full load
	Voltage	200VAC-240VAC
	Frequency	50/60Hz
	Power Factor	≥0.95@230VAC, Full load
	THD	<20%@230VAC, Full load
	Current	0.15Amax@230VAC, Full load
	Inrush Current	Cold start, 15A(twidth=60us measured at 50% Ipeak@230VAC
Output	Current/Voltage/Power	1A/24VDC/24W
	Channel	1
	Voltage Tolerance	±3%
Function	Dimming Mode	TriacELV
Protection	Over temperature	Shut down the output, recovers automatically when temp. back to normal.
	Short Circuit	Close output,recovers automatically after fault removed
	Over Load	Close output , recovers automatically after fault removed
Others	Working Temp.	-20°C~50°C
	Storage Temp.; Humidity	-40°C~85°C, 20-90%RH
	Tc	75°C
	Material	PC
	IP Rating	IP20
	Lifetime	30,000h@tc:75°C
	Warranty Condition	3 years
	Switch Cycle	>15,000 times
	Packing Size	Net weight: 150g±5%/PCS; 50PCS/Carton; 8kg±5%/Carton; Carton Size: 374*314*166mm(L*W*H)
	Dimension	150*43*29mm(L*W*H)

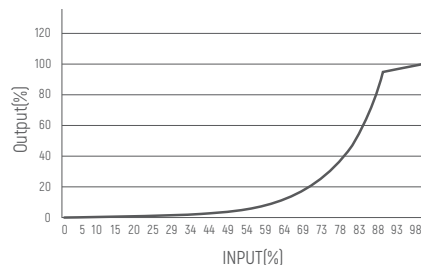
Dimension(mm)



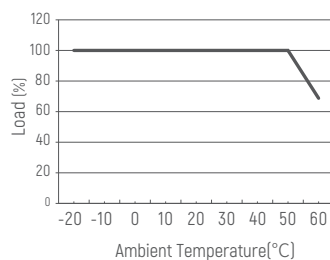
Wiring Diagram



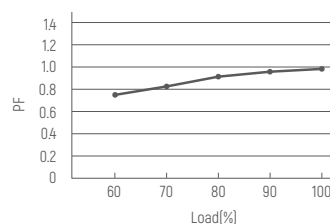
Dimming Curve



Derating Curve



PF vs Load



Note: For capacitive load, the larger inrush current will reduce the service life of the electrolytic capacitor. Before using this product, please contact the relevant technical personnel to match and verify.

Cautions

- 1.The product shall be installed and serviced by a qualified person.
- 2.This product is non-waterproof. Please avoid the sun and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.
- 3.Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 4.Please check if the output voltage and current of any LED power supplies used comply with the requirement of the product.
- 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.For safety consideration, PVC or rubber cord of 0.75-1.5mm² is recommended for input and output terminal(s) . 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.If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

※ The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail. Please contact us if you have any questions .