

ILDRCVA107

Summary

ILDRCVA107 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 etc.) to achieve a smooth dimming effect.

Product Feature

- Single-channel constant voltage output, 8.3A Max.
- Support Leading edge (Triac) and Trailing edge (ELV)Dimmer.
- Dimming range from 40VAC to 240V AC.
- Dimming effect smooth, no flicker
- High efficiency: up to 92%.
- Over current protection; Over voltage protection;Short circuit protection;Over temperature Protection
- Suitable for indoor LED lighting application



Application



Wall Washer



LED Strip Light



LED Tube



Underground Light



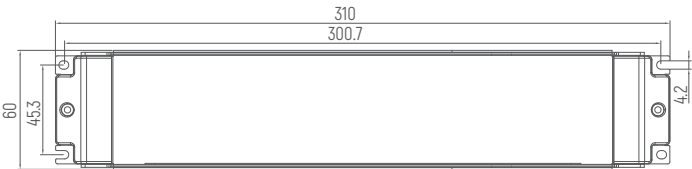
AR111 Venture Light



Technical Parameters

| Model      | ILDRCVA107              |  |     |
|------------|-------------------------|--|-----|
| Input      | Efficiency              | 92%@230VAC, Full load  |     |
|            | Voltage                 | 200VAC-240VAC  |     |
|            | Frequency               | 50/60Hz  |     |
|            | Power Factor            | >0.95@230VAC, Full load  |     |
|            | Current                 | 1Amax@230VAC, Full load  |     |
|            | Dimming voltage range   | 40-240VAC  |     |
|            | Inrush Current          | Cold start, 26.2A[twidth=700us measured at 50% Ipeak]@230VAC                               |     |
| Output     | Current/Voltage/Power   | 8.3A/24VDC/200W  |     |
|            | Ripple Current          | 400mVp-p   |     |
|            | Channel                 | 1  |     |
|            | Voltage Tolerance       | ±3%  |     |
|            | Turn On Delay Time      | <1s, at 230Vac   |     |
| Function   | Dimming Mode            | Triac  | ELV |
|            | Dimming Range           | 1-100% Dimming to off  |     |
| Protection | Over temperature        | Shut down and auto-restart after normal temperature  |     |
|            | Over current            | Hiccup, recovers after fault condition is removed  |     |
|            | Short Circuit           | Close the output, restart to recover since fault condition is removed for 10s              |     |
|            | Over voltage            | Hiccup, recovers after fault condition is removed  |     |
| Others     | Working Temp.           | -20°C~50°C   |     |
|            | Storage Temp.; Humidity | -40°C~85°C, 20-90%RH   |     |
|            | Tc                      | 90°C   |     |
|            | Material                | PC   |     |
|            | IP Rating               | IP20   |     |
|            | Lifetime                | 30,000h@tc:90°C  |     |
|            | Warranty Condition      | 3 years  |     |
|            | Switch Cycle            | >15,000 times  |     |
|            | Packing Size            | Net weight: 842g±5%/PCS; 10PCS/Carton; 10.5kg±5%/Carton; Carton Size: 319*254*151mm(L*W*H) |     |
|            | Dimension               | 310*60*45mm(L*W*H)   |     |

Dimension(mm)

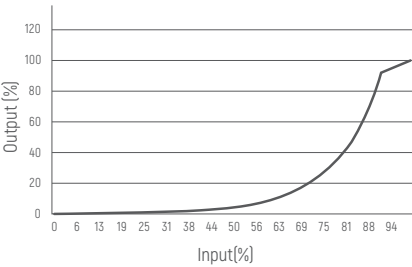


Wiring Diagram

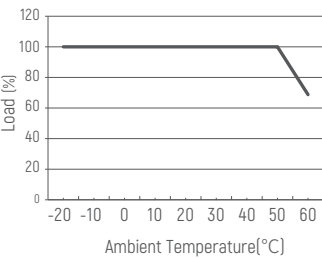
TRIAC Dimmer



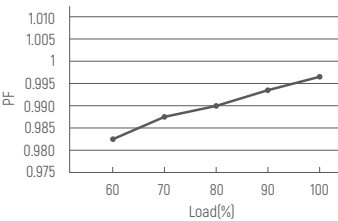
Dimming Curve



Derating Curve



PF vs Load



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.