

DUCN100AT-1H12V

Summary

DUCN100AT-1H12V is a constant voltage mode output LED driver. This driver can be controlled by external signal Phase-Cut ,0/1-10V to achieve a smooth dimming effect.

Product Features

- Single channel constant voltage output,8.33A Max
- High input voltage of 220VAC ~ 240VAC
- Dimming range of 1%-100%, and dimming effect smooth, no flicker
- 100% output when no dimming signal input, can be used as normal power supply
- Over load protection; short circuit protection
- IP20, suitable for indoor LED lighting application

Application



Wall Washer



LED Strip Light



LED Tube



Underground Light



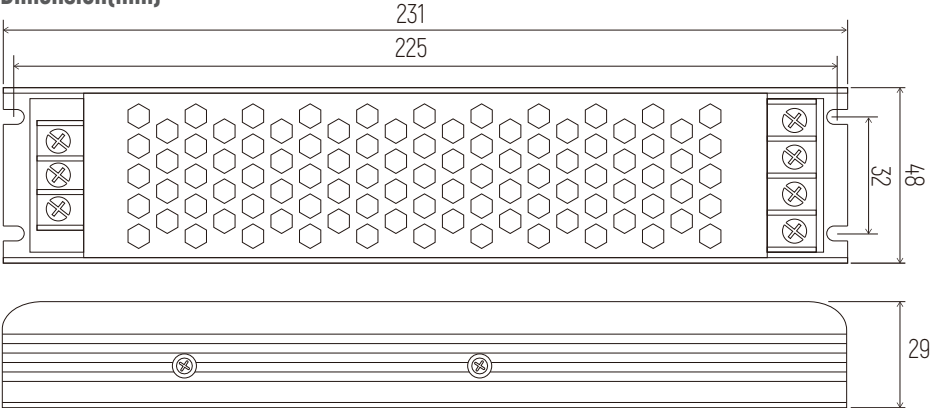
AR111 Venture Light



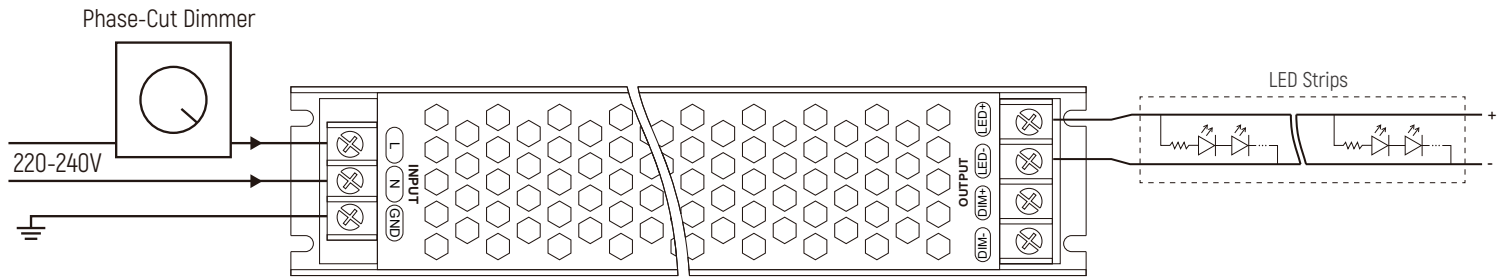
Technical Paramaters

| Model      | DUCN100AT-1H12V           |                                                                                            |
|------------|---------------------------|--------------------------------------------------------------------------------------------|
| Input      | Efficiency                | >87%@230VAC,Full load                                                                      |
|            | Voltage                   | 220VAC-240VAC                                                                              |
|            | Frequency Range(Hz)       | 50/60Hz                                                                                    |
|            | AC Current(max)           | 1.25Amax@230VAC, full load                                                                 |
|            | Inrush Current(max)       | Cold start,60A@230VAC 230us                                                                |
| Output     | Current / Voltage / Power | 8.33A/12VDC/100W                                                                           |
|            | No load output voltage    | 12.6Vmax                                                                                   |
|            | Channel                   | 1                                                                                          |
|            | Voltage Accuracy          | ±5%                                                                                        |
|            | Turn on delay Time        | <0.75s, at230Vac (When the light begins to shine)                                          |
| Function   | Dimming Type              | Phase-Cut & 0/1-10V                                                                        |
|            | Dimming Range             | 1%-100%                                                                                    |
| Protection | Short Circuit             | Switch off the output power, working automaically after troubleshooting.                   |
|            | Over Load                 | Hiccup, recovers after fault condition is removed                                          |
| Safety&EMC | Surge                     | L-N:1KV L/N-G:2KV                                                                          |
|            | Withstand Voltage         | I/P-O/P: 1500VAC/1min/5mA                                                                  |
| Others     | Working Temp.             | -20°C~50°C                                                                                 |
|            | Storage Temp., Humidity   | -40°C~85°C, 20-90%RH                                                                       |
|            | tc                        | 80°C                                                                                       |
|            | Material                  | Metal                                                                                      |
|            | IP Rating                 | IP20                                                                                       |
|            | Lifetime                  | 50,000h@tc:70°C                                                                            |
|            | Warranty Condition        | 5 years                                                                                    |
|            | Switch Cycle              | 25,000 times                                                                               |
|            | Packing(weight)           | Net weight: 305g±5%/PCS; 50PCS/Carton;15.75kg±5%/Carton; Carton Size: 490*310*197mm(L*W*H) |
|            | Dimension                 | 231*48*29mm (L*W*H)                                                                        |

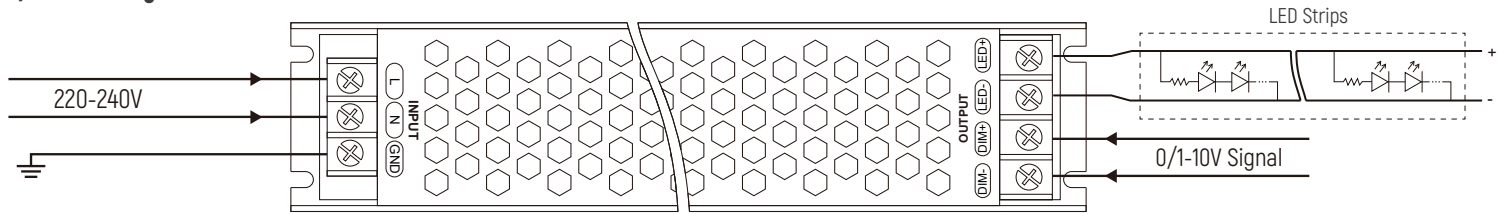
Dimension(mm)



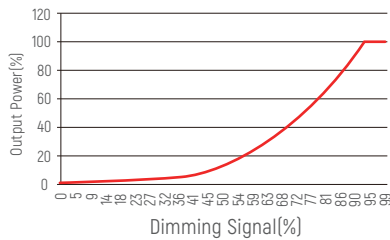
## Phase-Cut Wiring



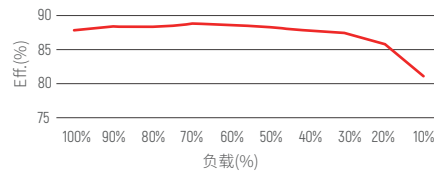
## 0/1-10V Wiring



## 0/1-10V Dimming Curve



## Eff. VS Load



## 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.

DUCN100AT-1H12V

概述

DUCN100AT-1H12V是一款可以用于室内的恒压输出LED调光驱动器。  
这款驱动器支持可控硅、0/1-10V有源信号，实现平滑调光的效果。

产品特点

- 单通道恒压输出，最大输出电流为8.33A
- 高输入电压220VAC ~ 240VAC
- 调光范围1%-100%，调光曲线平滑，无闪烁
- 信号悬空时，满载输出，可作为电源使用
- 短路保护，过载保护，过压保护
- IP20，适用于室内LED灯具

技术参数

| 型号         | DUCN100AT-1H12V |                                                                          |
|------------|-----------------|--------------------------------------------------------------------------|
| 输入         | 效率              | >87%@230VAC, 满载                                                          |
|            | 电压              | 220VAC-240VAC                                                            |
|            | 频率              | 50/60Hz                                                                  |
|            | 电流              | 1.25Amax@230VAC满载                                                        |
|            | 浪涌电流            | 冷启动,60A@230VAC 230us                                                     |
| 输出         | 电流/电压/功率        | 8.33A/12VDC/100W                                                         |
|            | 空载电压            | 12.6Vmax                                                                 |
|            | 通道              | 1                                                                        |
|            | 电压精度            | ±5%                                                                      |
|            | 启动延时            | <0.75s, at230Vac (当灯光开始亮起)                                               |
| 功能         | 调光方式            | 可控硅、0/1-10V                                                              |
|            | 调光范围            | 1%-100%                                                                  |
| 保护         | 短路              | 关闭输出，排除故障后自恢复                                                            |
|            | 过载              | 打嗝，去除故障后自恢复                                                              |
| 安规<br>电磁兼容 | 浪涌              | L-N:1KV L/N-G:2KV                                                        |
|            | 耐压              | I/P-O/P: 1500VAC/1min/5mA                                                |
| 其它         | 工作温度            | -20°C~+50°C                                                              |
|            | 储存温度、湿度         | -40°C~85°C, 20-90%RH                                                     |
|            | tc              | 80°C                                                                     |
|            | 材质              | 金属                                                                       |
|            | 防水等级            | IP20                                                                     |
|            | 寿命              | 50,000小时@tc:70°C                                                         |
|            | 质保              | 5年                                                                       |
|            | 开关周期            | 25,000次                                                                  |
|            | 包装尺寸(重量)        | 净重: 305g±5%/PCS; 50PCS/Cartron; 15.75kg±5%/箱; 外箱尺寸: 490*310*197cm(长*宽*高) |
|            | 尺寸              | 231*48*29mm (长*宽*高)                                                      |



应用



洗墙灯



LED灯带



LED硬灯条

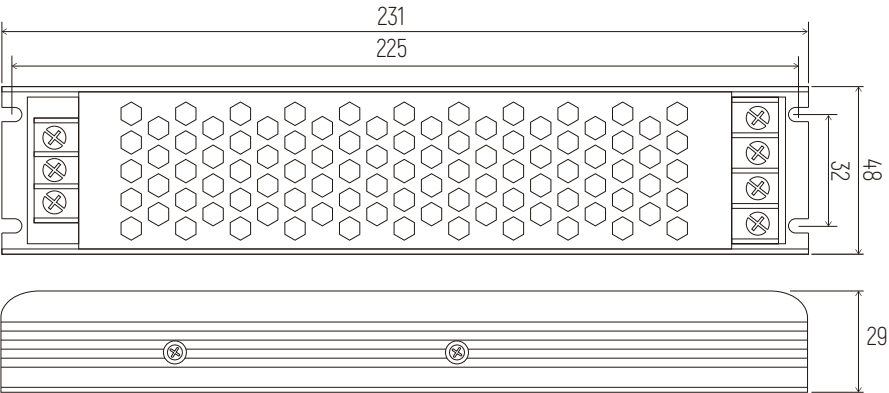


地埋灯

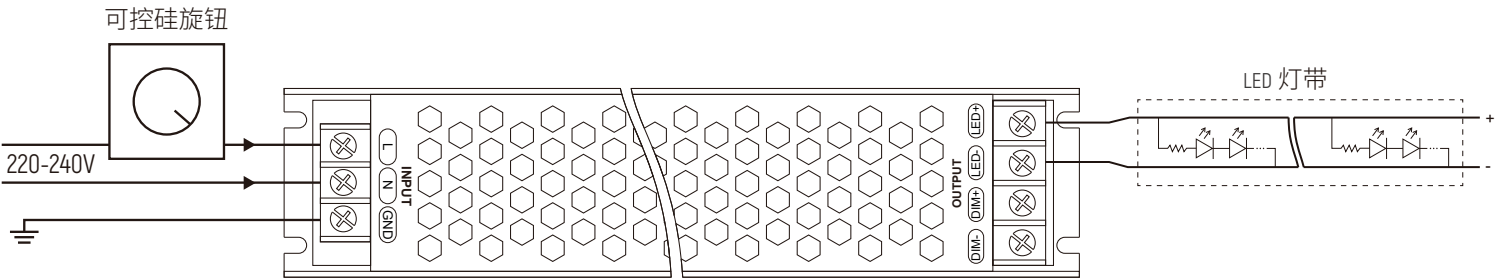


AR111斗胆灯

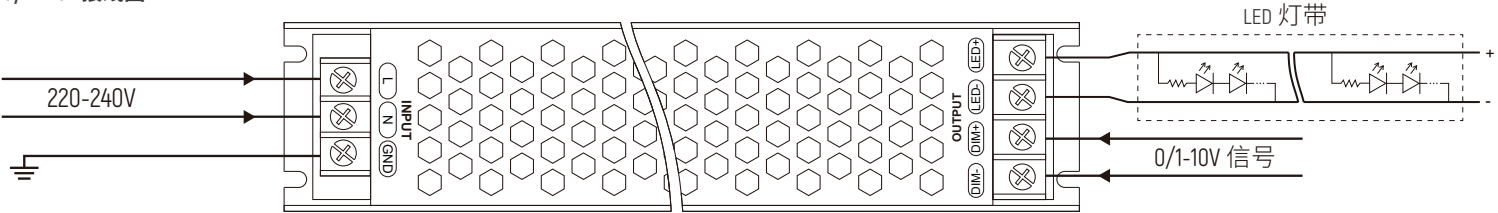
尺寸(mm)



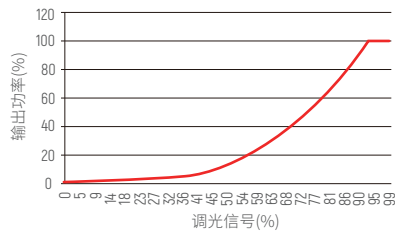
可控硅接线图



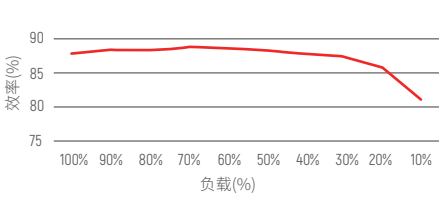
0/1-10V接线图



0/1-10V调光曲线



效率VS负载



注意事项:

- 1、本产品请由具有专业资格的人员进行调试安装。
- 2、本产品不能防水，需避免日晒雨淋，如安装在户外，请用防水箱。
- 3、良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境。
- 4、请检查使用的LED电源输出电压电流，是否符合产品要求。
- 5、出于安全考虑，推荐输入和输出（信号端除外）用0.75-2.5mm<sup>2</sup> PVC或橡胶线缆，并确保接线牢固，以免电线过热或接触不良触发事故。扁平电源线不适用。
- 6、通电调试前，应确保所有接线正确，避免因接线错误而导致灯具损坏。
- 7、如果发生故障，请勿私自维修；如果有疑问，请联系供应商。

※ 本说明书内容如有更新，恕不另行通知。若您使用的产品功能与说明书不一致时，请以产品为准。如有疑问请与我们联系。