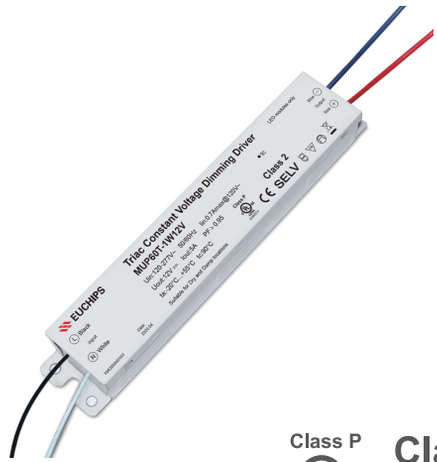
**MUP60T-1W12V** (Product No.: 104200340101)




Class P
Class 2
SELV
E490914

### Summary

MUP60T-1W12V 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,Bunge， Siemens etc.) to achieve a smooth dimming effect.

### Product Feature

·Single-channel constant voltage output, 5.0A Max.
·Support Leading edge (Triac) and Trailing edge (ELV)Dimmer
·Dimming range from 40VAC to 120V AC
·Dimming effect smooth, no flicker
·High efficiency: up to 86%
·PF: up to 0.99
·Over current protection; Short circuit protection； Over voltage
·Suitable for indoor LED lighting application

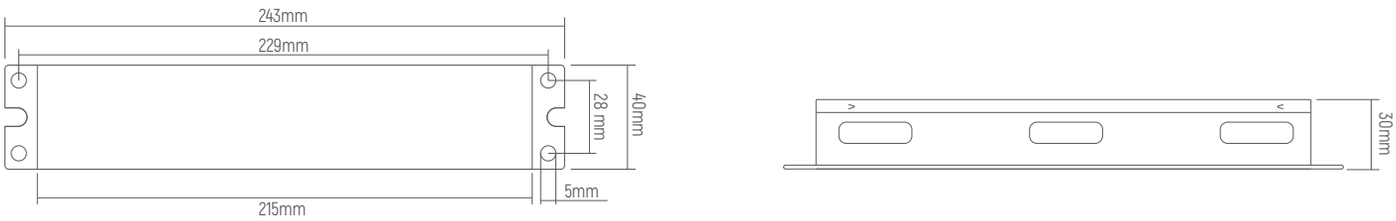
### Application


Wall Washer　LED Strip Light　LED Tube　Underground Light　AR111 Venture Light

### Technical Parameters

| Model | MUP60T-1W12V | | |
|---|---|---|---|
| Input | Efficiency | 86%@120VAC, Full load | |
| | Voltage | 120VAC-277VAC | |
| | Frequency | 50/60Hz | |
| | Power Factor | ≥0.99@120VAC, Full load | |
| | Current | 0.7Amax@120VAC, Full load | |
| | THD | <10%@120VAC,Full Load | |
| | Dimming voltage range | 40-120VAC | |
| | Inrush Current | Cold start, 50A@120VAC | |
| | Standby Power | 4W | |
| Output | Current/Voltage/Power | 5A/12VDC/60W | |
| | Frequency | 1000Hz PWM | |
| | Ripple Current | <300mV Vp-p | |
| | Channel | 1 | |
| | Current Tolerance | ±3% | |
| | Turn On Delay Time | <1s, at 120Vac | |
| Function | Dimming Mode | Triac | ELV |
| | Dimming Range | 1-100% Dimming to Off | |
| Protection | Short Circuit | Hiccup， recovers after fault condition is removed | |
| | Over Load | Hiccup， recovers after fault condition is removed | |
| | Over Voltage | Hiccup， recovers after fault condition is removed | |
| | Over temperature | Shut down and auto-restart after normal temperature | |
| Safety&EMC | Surge | L-N:2.5kV; | |
| | Withstand Voltage | I/P-O/ P: 3000VAC/1min/5mA | |
| | Safety Standards | UL8750/UL1310/CSA25013.CSA Class P | |
| | EMC Eission | EN50515,EN61000-3-2 Class C,IEC61000-3-3 | |
| | EMC Immunity | FCC ClassB(120V)/Class A(277) | |
| Others | Working Temp. | -20°C~55°C | |
| | Storage Temp.; Humidity | -40°C~85°C, 20-90%RH | |
| | Tc | 90°C | |
| | Material | Metal | |
| | IP Rating | IP20 | |
| | Lifetime | 50,000h@tc:70°C | |
| | Warranty Condition | 5 years | |
| | Switch Cycle | >25,000 times | |
| | Packing Size | Net weight: 700g±5%/PCS; 20PCS/Carton; 14.5kg±5%/Carton; Carton Size: 300*268*168mm(L*W*H) | |
| | Dimension | 243*40*30mm(L*W*H) | |

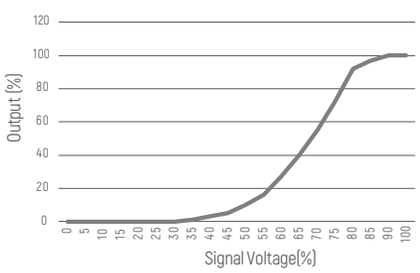
**Dimension(mm)**




**Wiring Diagram**




**Dimming Curve**

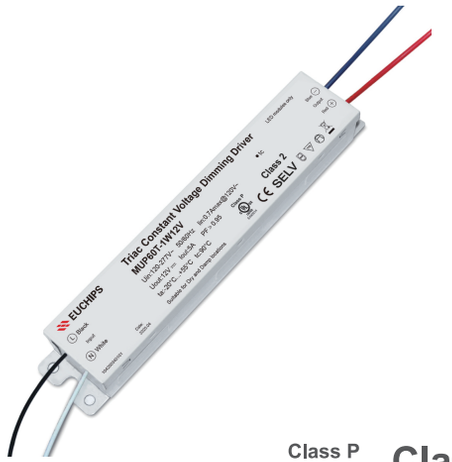



**Cautions**

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.

**MUP60T-1W12V** (产品代码: 104200340101)

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### 概述

MUP60T-1W12V是一款恒压输出LED调光驱动器。这款驱动器支持前沿切相和后沿切相调光器，可以与多品牌系统（飞利浦，ABB，路创，西门子，西蒙，松下，邦奇等）配合使用，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5.0A
·支持前沿 (Triac) 和后沿(ELV)调光
·调光电压范围 40VAC- 120VAC
·调光曲线平滑，无抖动
·高效率达86%
·功率因数高达0.99
·过流保护；过压保护；短路保护；过温保护
·适用于室内LED灯具

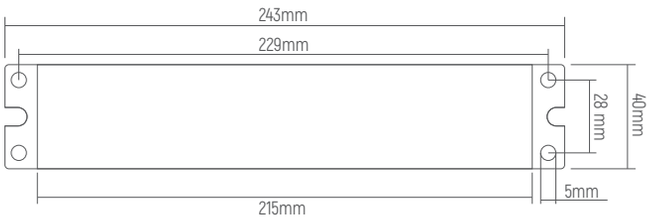
### 应用

洗墙灯　LED灯带　LED硬灯条　地埋灯　AR斗胆灯

### 技术参数

| 型号 | MUP60T-1W12V | | |
|---|---|---|---|
| 输入 | 效率 | 86%@120VAC, 满载 | |
| | 电压 | 120VAC-277VAC | |
| | 频率 | 50/60Hz | |
| | 功率因素 | ≥0.99@120VAC, 满载 | |
| | THD | <10%@120VAC,Full Load | |
| | 电流 | 0.7Amax@120VAC, 满载 | |
| | 调光电压范围 | 40-120VAC | |
| | 浪涌电流 | 冷启动50A@120VAC | |
| | 待机功耗 | 4W | |
| 输出 | 电流/电压/功率 | 5A/12VDC/60W | |
| | 频率 | 1000Hz PWM | |
| | 波纹电流 | <300mV Vp-p | |
| | 通道 | 1 | |
| | 电流精度 | ±3% | |
| | 启动延时 | <1s, at 120Vac | |
| 功能 | 调光方式 | 前沿 | 后沿切相调光 |
| | 调光范围 | 1-100% 变暗至关闭 | |
| 保护 | 短路 | 关断输出，移除故障后自恢复 | |
| | 过载 | 超过输出电压时,输出电流下降,减轻负载自动恢复 | |
| | 过压 | 关机，常温后自动重启 | |
| | 过温 | 关闭输出,温度正常后自动恢复 | |
| 安规与兼容 | 浪涌 | L-N:2.5kV; | |
| | 耐压 | I/P-O/ P: 3000VAC/1min/5mA | |
| | 安全标准 | UL8750/UL1310/CSA25013.CSA Class P | |
| | 电磁兼容 | EN50515,EN61000-3-2 Class C,IEC61000-3-3 | |
| | EMC抗扰度 | FCC ClassB(120V)/Class A(277) | |
| 其它 | 工作温度 | -20°C~55°C | |
| | 储存温度、湿度 | -40°C~85°C, 20-90%RH | |
| | tc | 90°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 | |
| | 包装重量 | 净重: 700g±5%/个; 20个/箱; 14.5kg±5%/箱; 外箱尺寸: 300*268*268mm(L*W*H) | |
| | 尺寸 | 243*40*30(长*宽*高) | |

## 产品尺寸



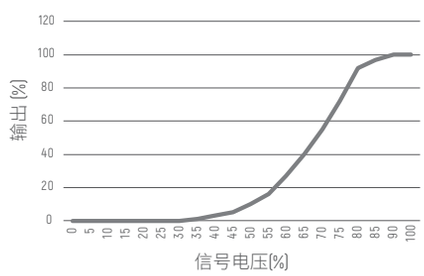




## 应用接线图




## 调光曲线




## 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0.75-1.5mm2PVC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，以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。