MUP96T-1W12V (Product No.: 104200330101)



Summary

MUP96T-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, 8A 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 88%
·PF: up to 0.99
·Over current protection; Short circuit protection； Over voltage
·Suitable for indoor LED lighting application

Class P
LISTED
E490914

Class 2
SELV

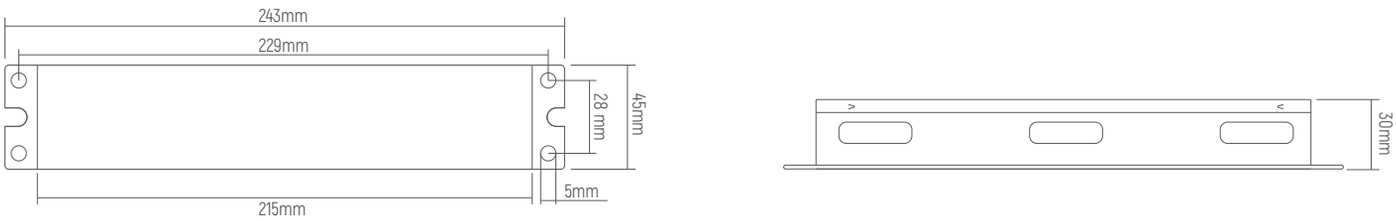
Application



Technical Parameters

Model	MUP96T-1W12V	
Input	Efficiency	≥79%@120VAC, ≥88%@230-277VAC Full load
	Voltage	120VAC-277VAC
	Frequency	50/60Hz
	Power Factor	≥0.99@120VAC, Full load
	THD	<10%@120VAC,Full Load
	Current	1.1Amax@120VAC, Full load
	Dimming voltage range	40-120VAC
	Inrush Current	Cold start, 70A@120VAC
	Standby Power	<4W
Output	Current/Voltage/Power	8A/12VDC/96W
	Frequency	1000Hz PWM
	Ripple Current	<300mV Vp-p
	Channel	1
	Turn On Delay Time	<0.5s from power on to Iout>0 @120Vac
Function	Dimming Mode	Triac/ELV（120VAC phase-cut,277VAC Non-Dimming）
	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
	EMI Emission	EN55015,EN61000-3-2 Class C,IEC61000-3-3
	EMC Immunity	FCC ClassB(120V)/Class A(277)
Others	Working Temp.	-20°C~50°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*45*30mm(L*W*H)

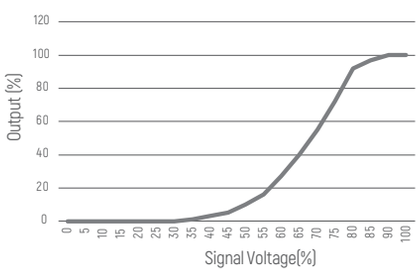
Dimension(mm)



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.

MUP96T-1W12V (产品代码: 104200330101)



Class P
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SELV
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概述

MUP96T-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8A
·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88%
·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

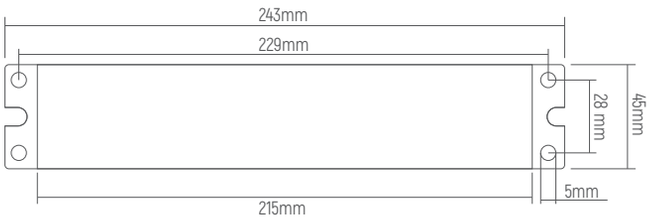
应用

洗墙灯 | LED灯带 | LED硬灯条 | 地埋灯 | AR斗胆灯

技术参数

型号	MUP96T-1W12V	
输入	效率	≥79%@120VAC, ≥88%@230-277VAC, 满载
	电压	120VAC-277VAC
	频率	50/60Hz
	功率因素	≥0.99@120VAC, 满载
	THD	<10%@120VAC, 满载
	电流	1.1Amax@120VAC, 满载
	调光电压范围	40-120VAC
	浪涌电流	冷启动, 70A@120VAC
	待机功耗	<4W
输出	电流/电压/功率	8A/12VDC/96W
	频率	1000Hz PWM
	纹波电压	<300mV Vp-p
	通道	1
	启动延时	启动时间<0.5s，上电到输出电流大于0 @120Vac
功能	调光方式	前沿/后沿切相调光 (120VAC切相调光,277VAC非调光)
	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
安规与电磁兼容	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	EN55015,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~50°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*45*30(长*宽*高)

产品尺寸

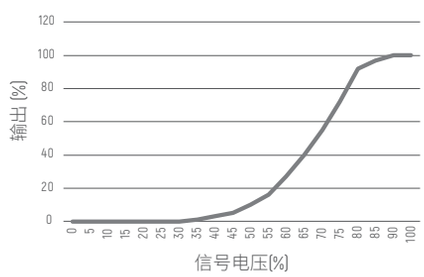




应用接线图



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。