

LCP75T-1H24V

Summary

LCP75T-1H24V 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, 3.125A 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 88%
- Over current protection; Short circuit protection; Over voltage
- Suitable for indoor LED lighting application

Application

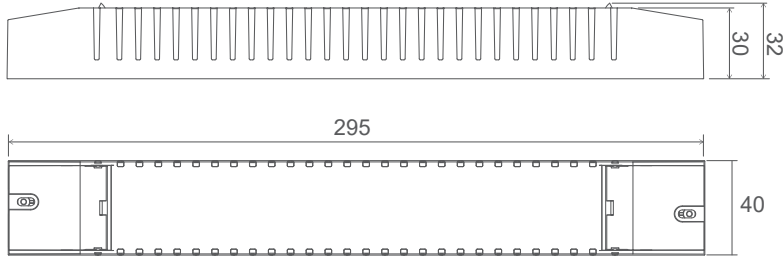
For LED constant voltage strip light only



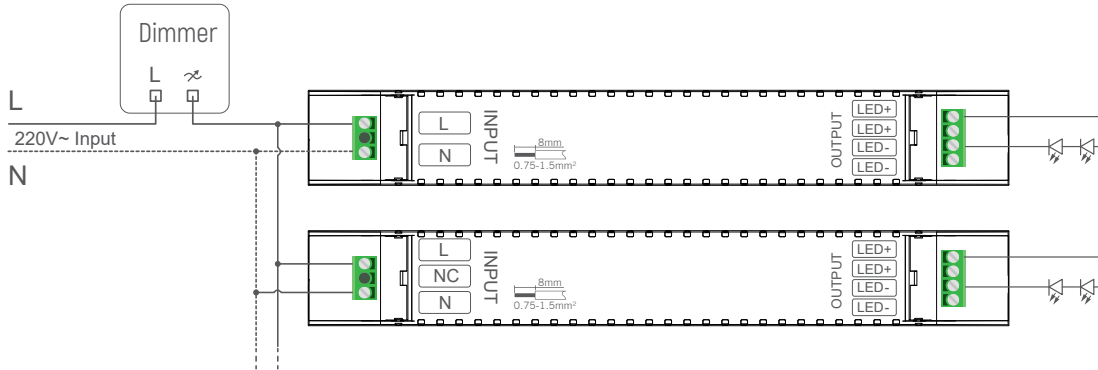
Technical Parameters

Model	LCP75T-1H24V	
Input	Efficiency	88%@220VAC, Full load
	Voltage	220VAC-240VAC
	Frequency	50/60Hz
	Power Factor	>0.98@230VAC, Full load
	Current	0.43Amax
	Dimming voltage range	40-240VAC
	Inrush Current	Cold start,19.4A(t width =700us measured at 50% Ipeak) @230VAC
Output	Current	3.125A
	Voltage	24VDC
	Power	75W
	Voltage Accuracy	±5%
	Channel	1
	Turn On Delay Time	<1s, at 230Vac
Function	Dimming Mode	TriacELV
Protection	Over load	Limit the output to 110% to 150% of the rated power
	Short Circuit	Hiccup, recovers after fault condition is removed
	Over voltage	When the output voltage is exceeded, the output current decreases and, recovers automatically when the load is reduced.
Safety&EMC	Surge	L-N:2KV
	Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA
	Safety standards	EN61347, GB19510
	EMI emission	EN55015, EN61000-3-2
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547
Others	Working Temp.	-20℃~50℃
	Storage Temp.; Humidity	-40℃~85℃, 20-90%RH
	Tc	85℃
	Material	PC
	IP Rating	IP20
	Lifetime	50,000h@tc:85℃
	Warranty Condition	5 years
	Switch Cycle	>25,000 times
	Packing Size	Net weight: 460g±5%/PCS; 20PCS/Carton; 10.5kg±5%/Carton; Carton Size: 254*233*219mm(L*W*H)
	Dimension	295*40*32mm(L*W*H)

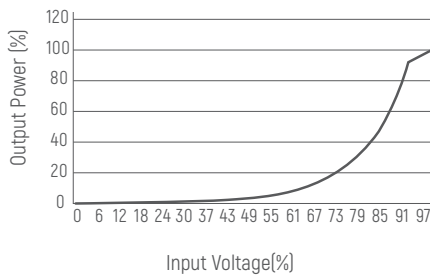
Dimension(mm)



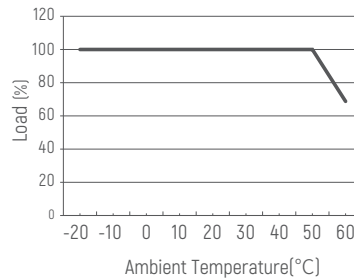
Wiring Diagram



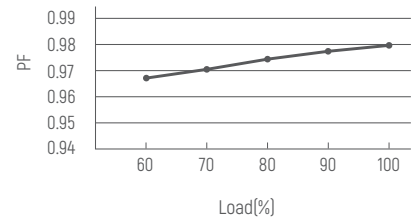
Dimming Curve



Derating Curve

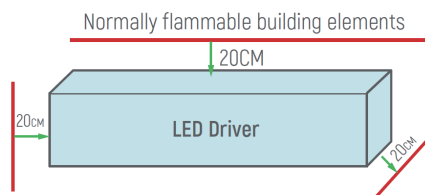


PF vs Load



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.
- 8.No insulation between dimming circuit and LV circuit



LCP75T-1H24V

概述

LCP75T-1H24V 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 3.125A
- 支持前沿 (Triac) 和后沿(ELV)调光
- 调光电压范围 40VAC- 240VAC
- 调光曲线平滑，无抖动
- 高效率达 88%
- 过流保护；过压保护；短路保护
- 适用于室内 LED 灯具

应用

仅用于LED恒压灯带



LED灯带



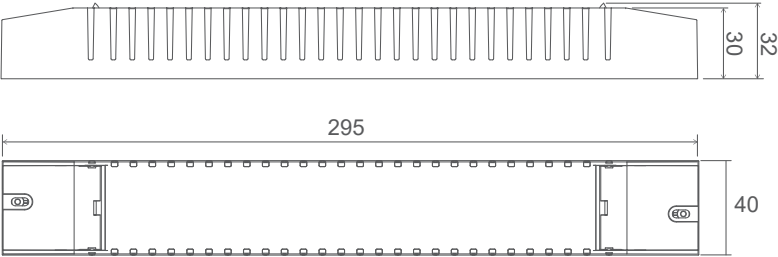
LED硬灯条



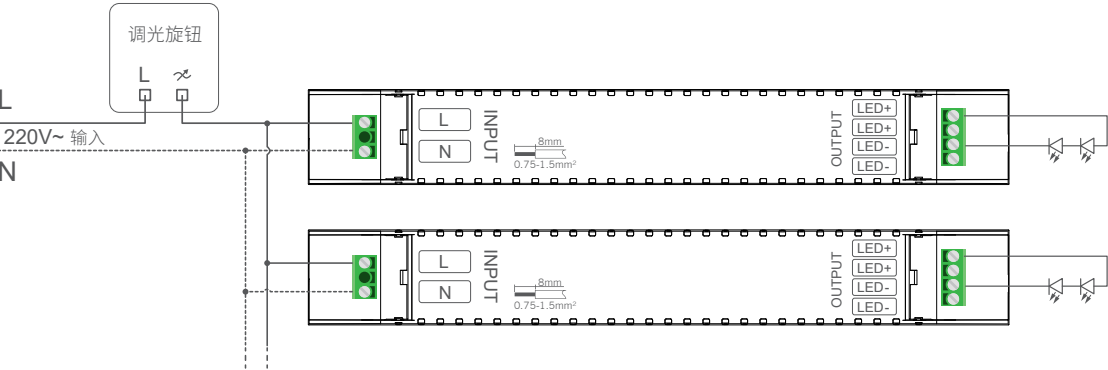
技术参数

型号	LCP75T-1H24V	
输入	效率	88%@220VAC, 满载
	电压	220VAC-240VAC
	频率	50/60Hz
	功率因素	>0.98@230VAC, 满载
	电流	0.43Amax
	调光电压范围	40-240VAC
	浪涌电流	冷启动19.4A@230VAC
输出	电流	3.125A
	电压	24VDC
	功率	75W
	电压精度	24VDC±5%
	通道	1
	启动延时	<1s, at 230Vac
功能	调光方式	前沿 后沿切相调光
保护	过负载	将输出功率限制在额定功率的 110%-150%
	短路	打嗝，去除故障后自恢复
	过压	当超过输出电压时，输出电流减小，负载减小时自动恢复
安规和电磁兼容	浪涌	L-N:2KV
	耐压	I/P-O/P: 3000VAC/1min/5mA
	安全标准	EN61347, GB19510
	电磁兼容	EN55015, EN61000-3-2
	EMC抗扰度	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547
其它	工作温度	-20℃~50℃
	储存温度、湿度	-40℃~85℃, 20-90%RH
	tc	85℃
	材质	PC
	防水等级	IP20
	寿命	50,000小时@tc:85℃
	质保	5年
	开关周期	>25,000次
	包装重量	净重: 460g±5%/个; 20个/箱; 10.5kg±5%/箱; 外箱尺寸: 254*233*219mm(L*W*H)
	尺寸	295*40*32mm(长*宽*高)

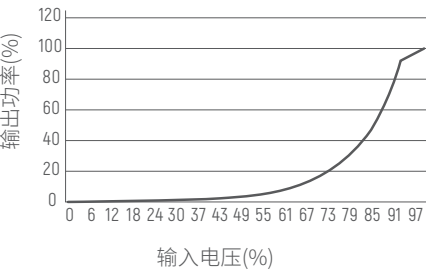
产品尺寸



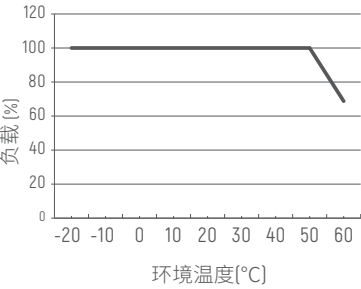
应用接线图



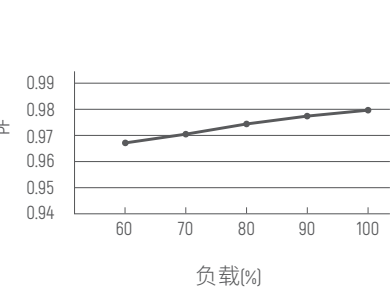
调光曲线



降额曲线



PF 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0.75-1.5mm²PVC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。