

Datasheet

LCP240T-1H24V

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Summary

LCP240T-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, 10A 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 91%
- Over current protection; Short circuit protection; Over voltage
- Suitable for indoor LED lighting application

Application

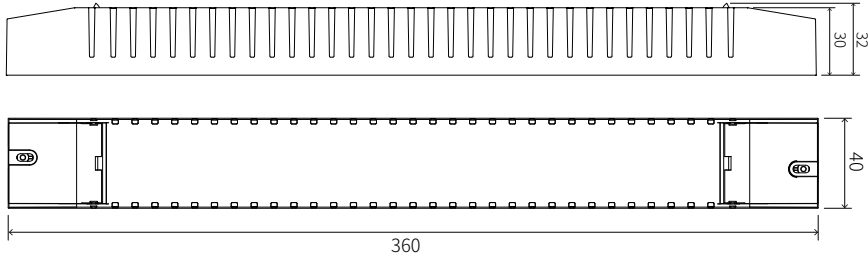
For LED constant voltage strip light only



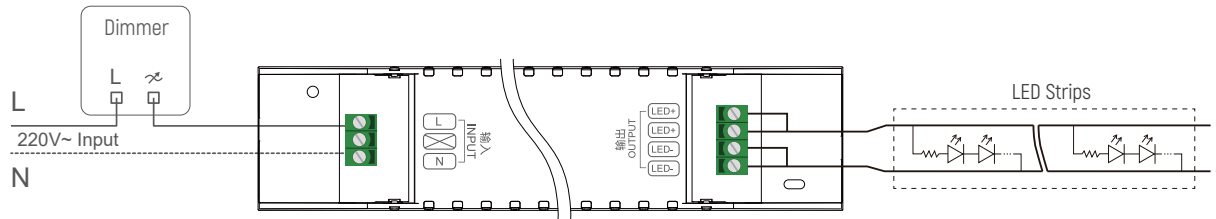
Technical Parameters

Model	LCP240T-1H12V	
Input	Efficiency	91%@220VAC, Full load
	Voltage	220VAC-240VAC
	Frequency	50/60Hz
	Power Factor	0.98@230VAC, Full load
	Current	1.12Amax@220VAC, Full load
	THD	<10%@220VAC, Full load
	Dimming voltage range	40-240VAC
	Inrush Current	Cold start, 49.4A@220VAC
Output	Current/Voltage/Power	10A/24VDC/240W
	No load output voltage	24VDC±5%
	Channel	1
	Voltage Tolerance	±3%
	Turn On Delay Time	NA
Function	Dimming Mode	Triac ELV
	Dimming range	1%-100%
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°C-50°C
	Storage Temp.; Humidity	-40°C-85°C, 20-90%RH
	Tc	90°C
	Material	PC
	IP Rating	IP20
	Lifetime	50,000h@tc:90°C
	Warranty Condition	5 years
	Switch Cycle	>25,000 times
	Packing Size	Net weight: 730g±5%/PCS; 25PCS/Carton;19kg±5%/Carton; Carton Size:377*241*196mm(L*W*H)
Dimension	360*40*32mm (L*W*H)	

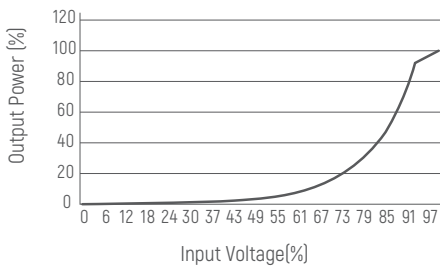
Dimension(mm)



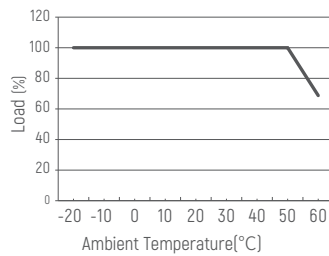
Wiring Diagram



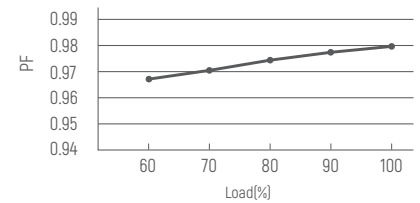
Dimming Curve



Derating Curve

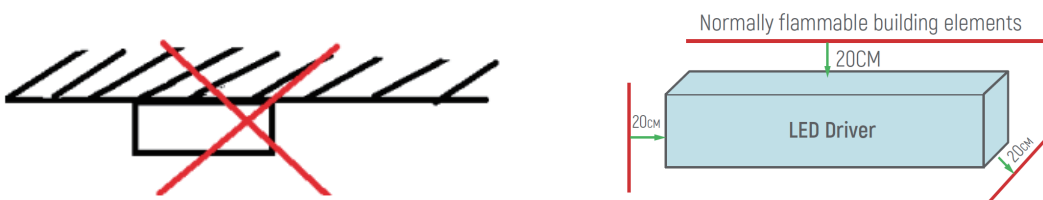


PF vs Load



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



※ 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 .

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