

TRIAC Constant Voltage Dimming Driver

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 Features

- 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%
- Over current protection; Short circuit protection; Over voltage
- Suitable for indoor LED lighting application



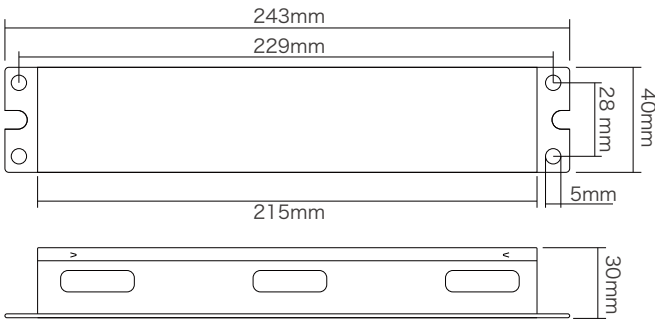
CE SELV



Technical Parameters

Model		MUP96T-1W12V
Output	Channel	1
	Voltage	12VDC
	Frequency	1000Hz PWM
	Current	8.0A
	Power	96W
	Current Accuracy	±3%
	R & N (Max)	<300mV Vp-p
Input	Voltage	120VAC~277VAC
	Frequency	50/60Hz
	Dimming Voltage Range	40-120VAC
	Efficiency	≥88%@120VAC, Full Load
	PF	≥0.99@120VAC, Full Load
	THD(Full load)	<10% (at 120V,50Hz, Full Load)
	Current	1.1Amax@120VAC
	Inrush current	Cold Start,70A@120VAC
Protection	Standby power	<4W
	Over Voltage	Hiccup, recovers after fault condition is removed
	Over load	Hiccup, recovers after fault condition is removed
	Short circuit	Hiccup, recovers after fault condition is removed
Safety&EMC	Over temperature	Shut down and auto-restart after normal temperature
	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
Function	EMC Immunity	FCC ClassB(120V)/Class A(277)
	Dimming type	Triac/ELV DIM
	Dimming range	5%-100%
Others	Dimension	243*40*30mm(L*W*H)
	G.W.	700g
	IP rating	IP20
	Working temp.	-20°C~55°C
	tc	90°C
	Relative humidity	20~90% RH
	Lifetime	50,000h@tc:70°C
	Material	Metal
	Switch cycle	>100,000 times

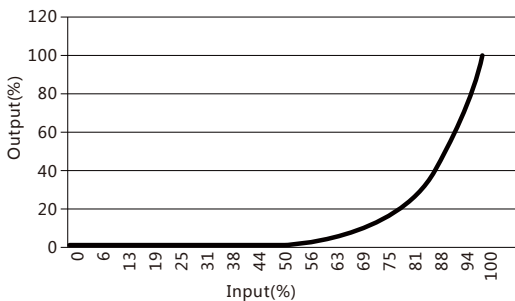
Dimension (mm)



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.