

EUP45T-1HMC-0

TRIAC Constant Current Dimming Driver

Summary

EUP45T-1HMC-0 is a constant current output mode LED driver. The output current can be easily set via DIP switch. 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, Siemens, Dalitek etc.) to achieve a smooth dimming effect.

Product Features

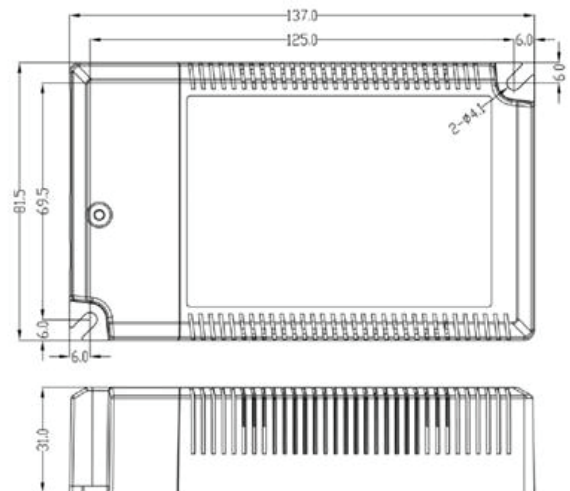
- Single channel output, output current level selectable by DIP S.W.
- Support Leading edge (Triac) and Trailing edge(ELV) dimmer
- Built-in active PFC function
- Class 2 power supply. Full protective plastic housing
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, over temperature
- Suitable for indoor LED lighting application, such as down light, spotlights, panel light, and so on

Technical Parameters

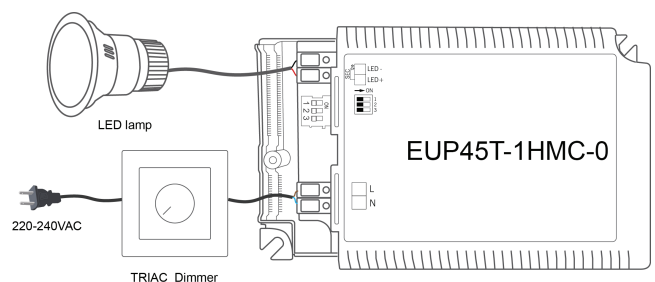
Model		EUP45T-1HMC-0			
Output	Current	800mA	850mA	900mA	950mA
	Voltage	9-45VDC	9-45VDC	9-45VDC	9-45VDC
	Power	36W	38.25W	40.5W	42.75W
	Current	1000mA	1050mA	1100mA	1150mA
	Voltage	9-45VDC	9-43VDC	3-41VDC	3-39VDC
	Power	45W	45.15W	45.1W	44.85W
	Current accuracy	±5%			
	No load output voltage	55VDC Max			
	Output LF current ripple (< 120 Hz)	<3%			
	Channels	1			
Input	Voltage	220~ 240VAC			
	Frequency	50/60Hz			
	Current	0.26Amax@230VAC			
	Power factor	> 0.9@230VAC,full load			
	THD	<20%@230VAC,full load			
	Efficiency	85%@230VAC,full load			
	Inrush current	Cold start,40A($t_{width}=24\mu s$ measured at 50% I_{peak}) @230VAC			
Protection	Short circuit	Close output, recovers automatically after fault removed			
	Over load	When the output voltage is exceeded, the output current decreases and, recovers automatically when the load is reduced.			
	Over temperature	Shut down the output, recovers automatically when temp. back to normal.			
Function	Dimming	Triac/ELV			
Others	Dimension	137*82*31 mm (L*W*H)			
	G.W	240g			
	Working temp.	-20°C ~ 50°C			
	Relative humidity	20~90% RH			



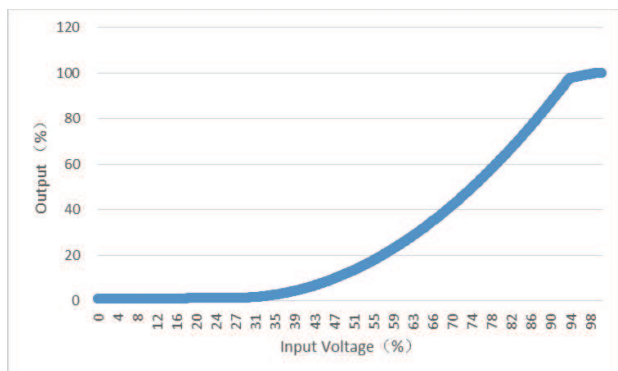
Dimension (mm)



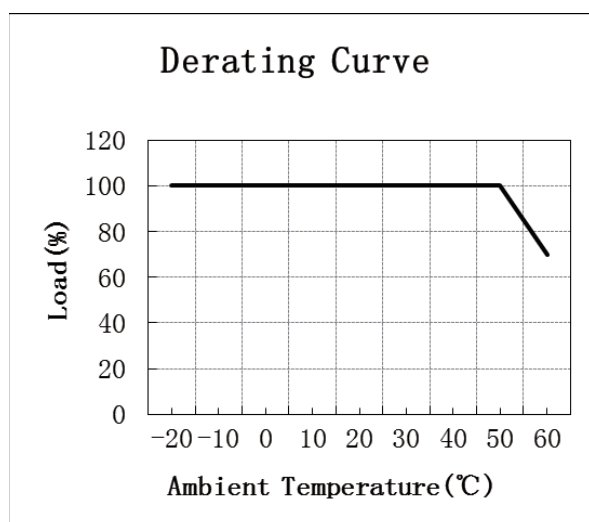
Wiring Diagram



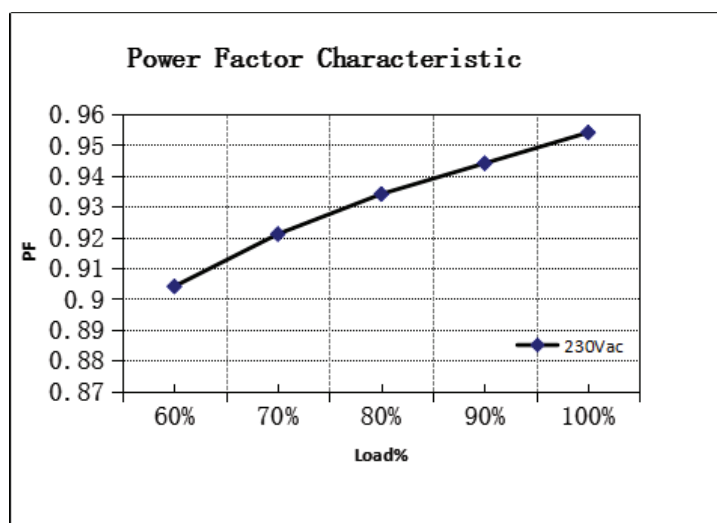
Dimming Curve



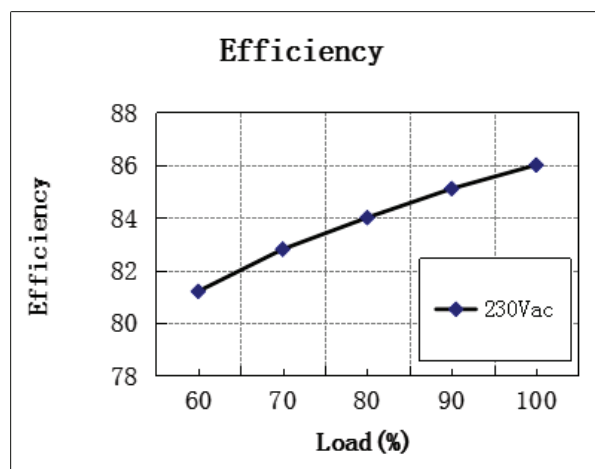
Derating Curve



PF vs load



Efficiency VS Load



Current Selection Table

Current	DIP-1	DIP-2	DIP-3
800mA	OFF	OFF	OFF
850mA	ON	OFF	OFF
900mA	OFF	ON	OFF
950mA	ON	ON	OFF
1000mA	OFF	OFF	ON
1050mA	ON	OFF	ON
1100mA	OFF	ON	ON
1150mA	ON	ON	ON

Remark: Function default setting is: 800mA
(@switch are all OFF state)

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.