

EUP50M-1WMC-0

DMX/RDM Constant Current Dimming Driver



Summary

EUP50M-1WMC-0 is a 50W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DMX512(1990). EUP50D-1WMC-0 can be connected to DMX main controller or RDM controller to achieve a smooth dimming effect.

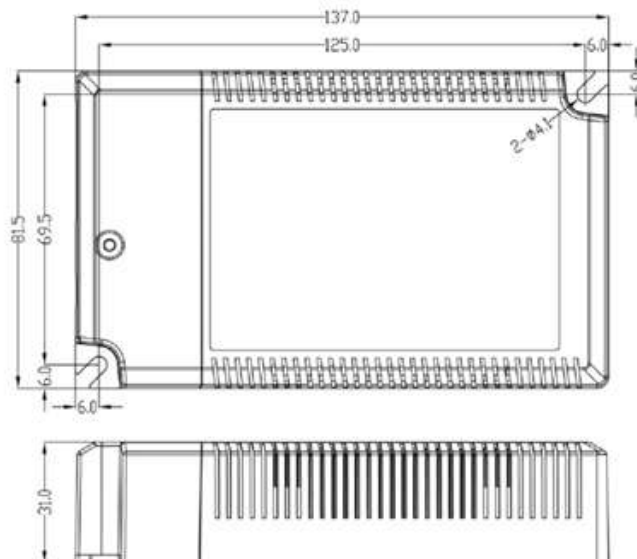
Product Features

- Single channel output, output current level selectable by DIP S.W.
- Meet DMX512(1990)
- Support RDM function
- Wide input voltage of 100VAC ~ 240VAC
- High efficiency up to 88%
- Built-in active PFC function
- Dimming effect smooth, no flicker
- Protections: over load, short circuit
- Suitable for indoor LED lighting application, such as down light, panel light, and so on

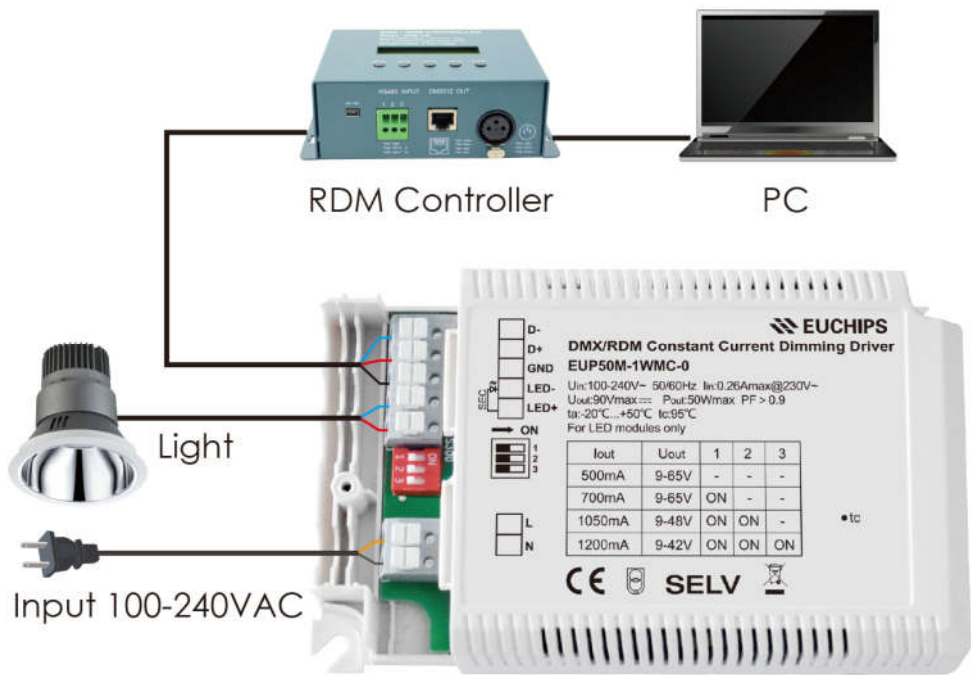
Technical Parameters

Model		EUP50M-1WMC-0			
Output	Current	500mA	700mA	1050mA	1200mA
	Voltage	9-65VDC	9-65VDC	9-48VDC	9-42VDC
	Power	32.5W	45.5W	50.4W	50.4W
	Current accuracy	±5%			
	Maximum output voltage	90VDC			
	Output LF current ripple(< 120 Hz)	<3%			
	Channels	1			
Input	Voltage	100– 240VAC			
	Frequency	50/60Hz			
	Power factor	≥0.9@230VAC,75%-100% load			
	Efficiency	88%@230VAC,full load			
	Current	0.26Amax@230VAC			
	THD	< 10%@230VAC,full load			
	Inrush current	Cold start,30A($t_{width}=22\mu s$ measured at 50% I_{peak}) @230VAC			
Protection	Over load	Hiccup, recovers automatically after fault removed			
	Short circuit	Shut down the output, recovers automatically after fault removed			
Function	Dimming	DMX512/RDM			
Others	Dimension	137*82*31mm (L*W*H)			
	G.W	220g			
	Working temp.	-20℃ ~ 50℃			
	Relative humidity	20~90% RH			

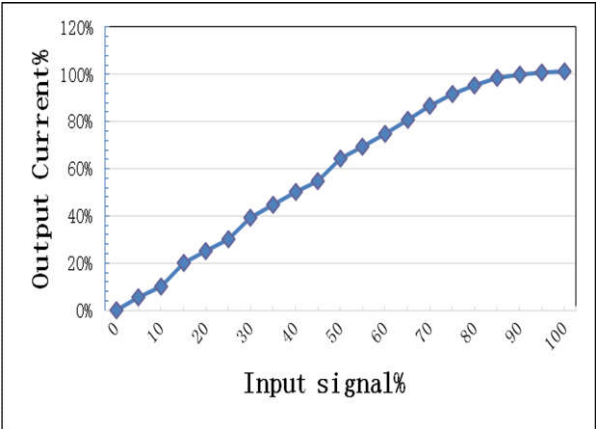
Dimension (mm)



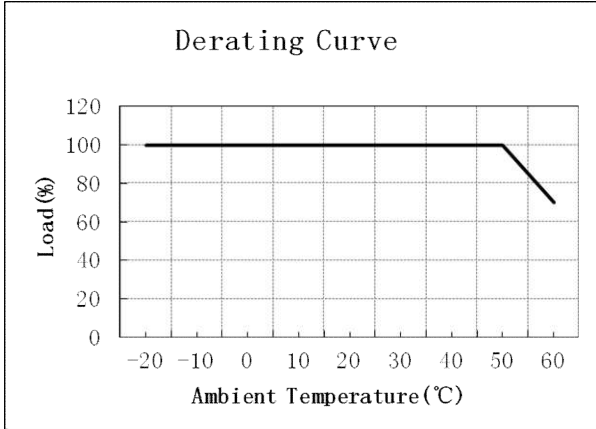
Wiring Diagram



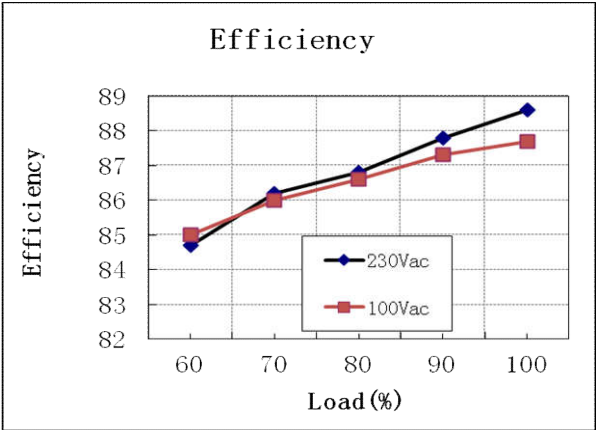
Dimming Curve



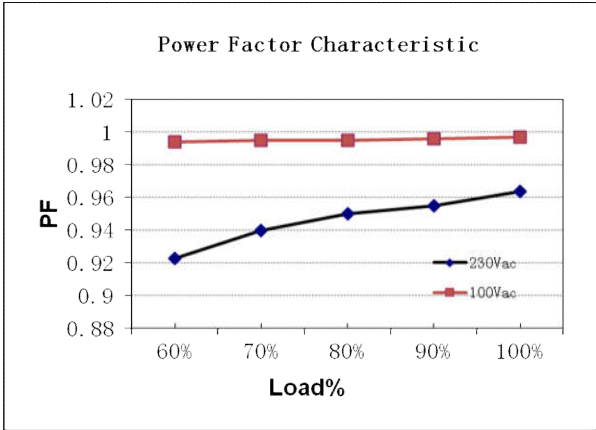
Derating Curve



Efficiency VS Load



PF VS Load



Current Selection Table

EUP50M-1WMC-0 is a multi-current dimming driver, output current level selectable by DIP S.W., as the following:

Current	DIP-1	DIP-2	DIP-3
500mA	OFF	OFF	OFF
700mA	ON	OFF	OFF
1050mA	ON	ON	OFF
1200mA	ON	ON	ON

Remark: Function default setting is: 500mA (@switch are all OFF state)

Precautions

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 $0.75\text{-}2.5\text{mm}^2$ is recommended for input and output terminal(s) (excluding signal terminals). 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.