EULP50D-2HMC-0
DALI Constant Current Dimming Driver

Summary

EULP50D-2HMC-0 is a LED controller that provides two channels outputs.The user can select the total output current via DIP switch.It supports DALI DT8 standard protocol and adjustment of brightness and colour temperature.
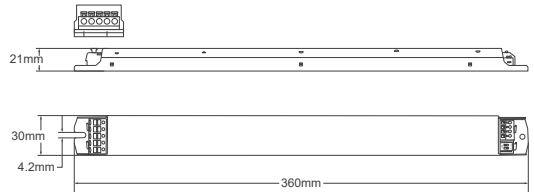
Product Features

·Meet DALI Protocol IEC 62386 DT8
·SELV. Full protective plastic housing
·High efficiency up to 86 %
·Built-in active PFC function
·Dimming effect smooth, no flicker
·Protections: Short circuit, over load, over temperature
·The positive output of the two channels is common
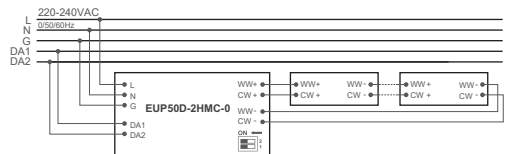·Supports adjustment of brightness and colour temperature.

Technical Parameters

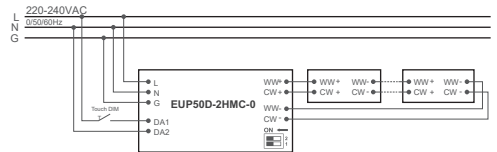| Model		EUL50D-2HMC-0			
Output	Current	900mA	1050mA	1200mA	1400mA
	Voltage	9-42VDC	9-42VDC	9-41VDC	9-35VDC
	Power	40.5W	47.25W	49.2W	49W
	Current Accuracy	±5%			
	No load output Voltage	60VDC			
	Output LF current ripple (<120Hz)	<3%			
	Channels	2			
Input	Voltage	220－240VAC			
	Frequency	50/60Hz			
	PowerFactor（Typ）	≥0.95@230VAC,full load			
	Efficiency	88%@230VAC,full load			
	THD	<10%@230VAC,full load			
	Standby power	<0.5W			
	Current	0.3 Amax@230VAC			
	Inrush Current	Cold start,18A(t width=14us measured at 50% Ipeak)@230VAC			
Protection	Short circuit	Close output，recovers automatically after fault removed			
	Over load	Hiccup, when the output power exceeds the rated power of 100～120%,then,recovers automatically after fault removed			
	Over temperature	Shut down the output, recovers automatically when temp. back to normal.			
Function	Dimming mode	DALI			
	Dimming range	1%~100%			
Others	Dimension	360*30*21mm（L*W*H）			
	G.W	305g			
	Working temp	-20℃～50℃			
	Relative humidity	20~90% RH			

Dimension (mm)

21mm

30mm
4.2mm — 360mm —
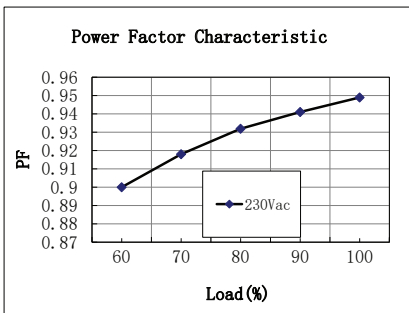
DALI Wiring Diagram

Touch DIM Wiring Diagram

Note:The output current for each channel is available to up to maximum current, In practical application, once one channel are up to maximum current, so the output current for anpother channel is 0.
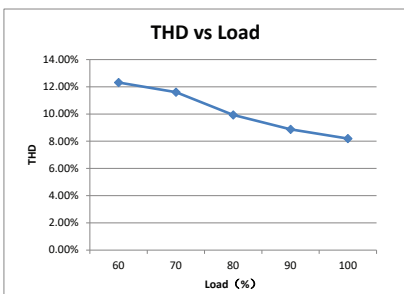
Touch DIM Guide

1.Press the Touch DIM switch for 8s or more,the driver can be controlled via Touch DIM switch.

2. Brief press (< 0.5 s) switches LED Driver ON and OFF. The dim level is saved at power-down and restored at power-up.

3.Long press the Touch DIM switch (>0.5s) to dim the brightness of light.

4.Double-click the Touch DIM switch (<0.3s), then all lamps connected on the device will be set maximum brightness.

5.The brightness adjustment range is 5%-100%.

6.Press the Touch DIM switch 3 times quickly within 10 seconds, switch to the color temperature mode, Long press Touch DIM switch to adjust the color temperature.Any other operation will exit the color temperature mode
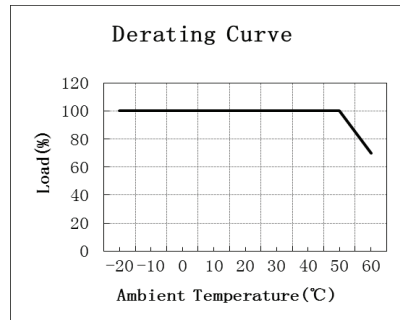
PF vs Load

THD vs Load

Derating Curve

Current Selection Table

EULP50D-2HMC-0 is a multi-current dimming driver, output current level selectable by DIP S.W., as the following:

Current	DIP-1	DIP-2
900mA	OFF	OFF
1050mA	ON	OFF
1200mA	OFF	ON
1400mA	ON	ON

Remark: Function default setting is: 900mA (@switch are all OFF state)

Cautions

1.This product should be installed by qualified personnel.

2.DALI and Touch-DIM functions can not be used at the same time.

3.This product is built-in lamp controlgear,should be built into a luminaire,a box, an enclosure or the like and intended to be mounted outside a luminaire,etc. without special precautions.

4.Please make sure LED power supply output voltage, current is used to meet the product requirements.

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.Due to safety concerns, PVC or rubber cord of 0.75-2.5mm² is recommended for input and output terminal(s) (excluding signal terminals). Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.

7.In case of malfunction, do not repair it yourself.