EUP12D-2HMC-0

Summary

EUP12D-2HMC-0 is a 12W AC/DC constant current mode output LED driver featuring the
multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386-209.
Can be connected to DALI main controller or Touch DIM to a chieve a smooth dimming effect.

Product Features

·Two channel output, output current level selectable by DIP S.W.
·Meet DALI Protocol IEC 62386-209
·Support Touch-DIM function
·High efficiency up to 83 %
·Built-in active PFC function
·Dimming effect smooth, no flicker
·Protections: Short circuit, over load, over temperature
·Suitable for indoor LED lighting application, such as down light, panel light, and so on

Tunable White(DT8)

Application

Downlight   Panel Light   Spotlight   Ceiling Light   Decorative Light   Floor Light   Flood Light

Technical Paramaters

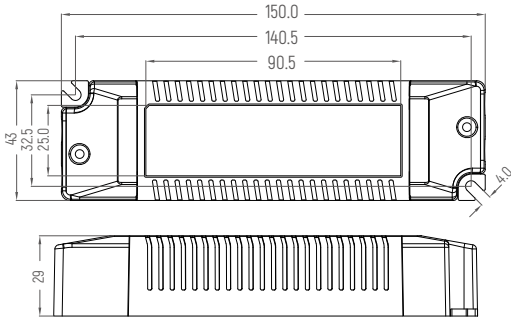| Model		EUP12D-2HMC-0			
Input	Efficiency	>83%@230VAC,Full load			
	Voltage	220VAC-240VAC			
	Frequency Range(Hz)	50/60Hz			
	Power Factor	≥0.95@230VAC,Full load			
	THD(full load)	<10%@230VAC, Full load			
	AC Current(max)	0.06Amax@230VAC			
	Standby power	<0.5W			
	Inrush Current(max)	Cold start,15A(twidth=14us measured at 50% Ipeak)@230VAC			
Output	Current(mA)/Voltage (VDC) Power(W)	*120mA/9-42VDC/5.04W 240mA/9-42VDC/10.1W	*150mA/9-42VDC/6.3W 270mA/9-42VDC/11.34W	*180mA/9-42VDC/7.56W 300mA/9-40VDC/12W	*200mA/9-42VDC/8.4W 350mA/9-34VDC/11.9W
	Ripple Current	<3%			
	Channel	2			
	Current Tolerance	±5%			
	No load output voltage	60V Max			
	Turn on delay Time	<1s, at230Vac			
Function	Dimming Type	DALI /Touch DIM			
	Dimming Range	0.2%-100% Dimming to off			
	color temperature	2700K-6500K			
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 Voltage	Close output, recovers automatically after fault removed			
Safety& EMC	Surge	L-N:1KV			
	Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA			
	DALI Standard	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC 62386-209: 2009, DALI 2.0			
	Safety Standards	IEC/EN61347-1,IEC/EN61347-2-13,GB19510.1,GB19510.14,			
	EMC Eission	EN50515,EN61000-3-2 Class C,IEC61000-3-3,GB/T17743			
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547,GB17625.1			
Others	Working Temp.	-20°C~50°C			
	Storage Temp., Humidity	-40°C~85°C, 20-90%RH			
	tc	80°C			
	Material	PC			
	IP Rating	IP20			
	Lifetime	50,000h@tc:70°C			
	Warranty Condition	5 Years			
	Switch Cycle	>25,000 times			
	Packing(weight)	Net weight: 125g±5%/PCS; 50PCS/Carton; 6.65kg±5%/Carton; Carton Size: 319*254*136mm(L*W*H)			
	Dimension	150*43*29mm （L*W*H)			

Current Selection Table

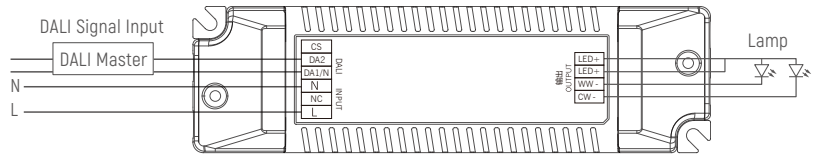|		1 2 3							
ON	OFF	120mA 9-42V	150mA 9-42V	180mA 9-42V	200mA 9-42V	240mA 9-42V	270mA 9-42V	300mA 9-40V	350mA 9-34V

Remark: Function default setting is: 120mA (@switch are all OFF state)

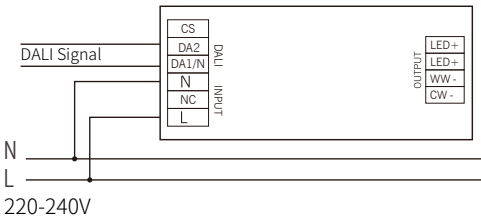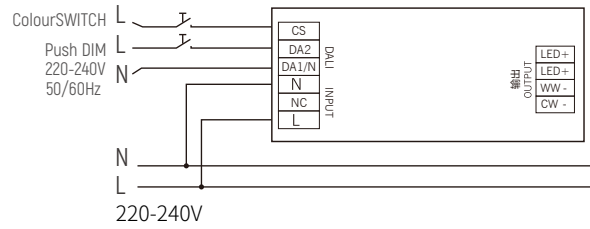*Current Tolerance: 120mA ±8%， 150mA ±8%， 180mA ±7%， 200mA ±7%

EUCHIPS

Dimension(mm)

150.0
140.5
90.5
43
32.5
25.0
4.0
29

DALI Wiring

DALI Signal Input
DALI Master
N
L

CS
DA2
DA1/N
N
NC
L
DALI INPUT

LED+
LED+
WW -
CW -
OUTPUT 输出

Lamp

DALI Diagram

DALI Signal

CS
DA2
DA1/N
N
NC
L
DALI INPUT

LED+
LED+
WW -
CW -
OUTPUT 输出

N
L
220-240V

Push DIM(Touch DIM) Diagram

ColourSWITCH L
Push DIM L
220-240V N
50/60Hz

CS
DA2
DA1/N
N
NC
L
DALI INPUT

LED+
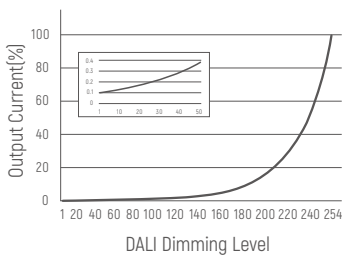LED+
WW -
CW -
OUTPUT 输出

N
L
220-240V

Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.
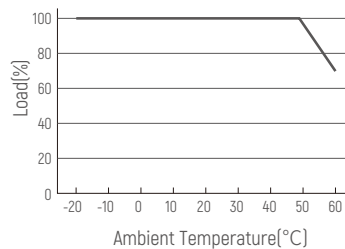
Push DIM/Coloer Switch

1. Press and hold the push DIM switch for 8s or more to enter the push dimming mode.

2. Press the push DIM switch briefly to turn on or off the lamp and return to the last memory state.

3. Press and hold the push DIM switch for dimming, stop at the current brightness when releasing, and adjust in the opposite direction every time, with the dimming range of 5% - 100%

4. Double click the push DIM switch to turn on the lamp to the brightest and cool light (this function is also used to adjust the consistency of multiple power supplies in the same circuit)

5. Colour switch is valid only after entering push DIM mode.

6. Press colour SWITCH briefly to set the color temperature mode, with 9 values between 2,700 and 6,500K.

7. Long press Colour SWITCH can continuously adjust the color temperature. Every long press, the color temperature will be adjusted in the opposite direction, with the color temperature range of 2700-6500K。

8. Double click colour switch, turn on the lamp to the brightest, cold light (this function is also used to adjust the consistency of multiple power supplies in the same circuit)
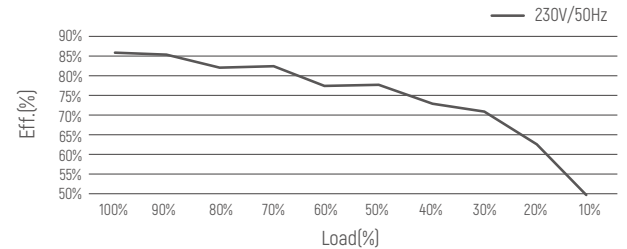
Dimming Curve

Output Current(%)
100
80
60
40
20
0
1 20 40 60 80 100 120 140 160 180 200 220 240 254
DALI Dimming Level

Derating Curve

Load(%)
100
80
60
40
20
0
-20 -10 0 10 20 30 40 50 60
Ambient Temperature(°C)

Efficiency Curve

230V/50Hz
Eff.(%)
90%
85%
80%
75%
70%
65%
60%
55%
50%
100% 90% 80% 70% 60% 50% 40% 30% 20% 10%
Load(%)

Cautions

1.This product should be installed by qualified personnel.

2.This product is non waterproof, need to avoid sun and rain.In case of outdoor use, please ensure it is mounted in a water proof enclosure.

3.Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.

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- 1.5mm² 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.In case of malfunction, do not repair it yourself.

※ 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 .