

EUP20D-1HMC-0 (Product No.:102100172101)

Summary

EUP20D-1HMC-0 is a 20W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386. EUP20D-1HMC-0 can be connected to DALI main controller or Touch DIM to achieve a smooth dimming effect.

Product Features

- ·Single channel output, output current level selectable by DIP S.W.
- ·Meet DALI Protocol IEC 62386-207 Ed2.0
- Support Touch-DIM function
- ·High efficiency up to 85 %
- ·Built-in active PFC function
- ·Dimming effect smooth, no flicker
- $\cdot \text{Protections: Short circuit, over load, over temperature}$
- ·Suitable for indoor LED lighting application, such as down light, panel light, and so on







Application











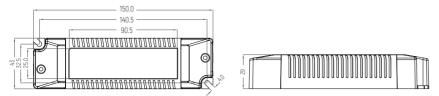


Technical Paramaters

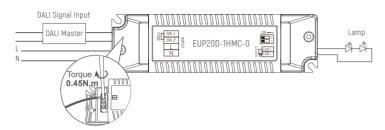
Model	EUP20D-1HMC-0	P20D-1HMC-0				
Input	Efficiency	85%@230VAC,Full load				
	Voltage	220VAC-240VAC				
	Frequency Range(Hz)	50/60Hz				
	Power Factor	≥0.95@230VAC,Full load				
	THD(full load)	<10%@230VAC, Full load				
	AC Current(max)	0.12Amax@230VAC				
	Standby power	<0.5W				
	Inrush Current(max)	Cold start,18A(twidth=14us measured at 50% Ipeak)@230VAC				
Output	Current(mA)/Voltage (VDC) Power(W)	350mA/9-40VDC/14W 500mA/9-40VDC/20W 550mA/9-36VDC/19.8W 700mA/9-28VDC/19.6W	Current Selection Table			
	Ripple Current	<3%	ON OFF 350mA 500mA 550mA 700mA 9-40V 9-36V 9-28V			
	Channel	1				
	Current Tolerance	±5%	Remark: Function default setting is: 350mA (@switch are			
	No load output voltage	50V Max	OFF state)			
	Dimming Type	DALI /Touch DIM				
Function	Dimming Range	0.1%-100% Dimming to off				
	Short Circuit	Close output, recovers automatically after fault removed				
Drotootion	Over Voltage	Hiccup, recovers after faultc ondition is removed				
Protection	Over Load	When the output voltage is exceeded, the output current decreases and, recovers automatically when the load is reduce				
	Over Temperature	Shut down the output, recovers automatically when temp. back to normal.				
Safety& EMC	Surge	L-N:1kV				
	Withstand Voltage	I/P-0/P: 3000VAC/1min/5mA				
	DALI Standard	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC62386-207 Ed2.0				
	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				
	Working Temp.	-20°C~50°C				
	Storage Temp., Humidity	-40°C~85°C, 20-90%RH				
	tc	90°C				
	Material	ABS				
Others	IP Rating	IP20				
	Lifetime	50,000h@tc:70°C				
	Warranty Condition	5 Years				
	Switch Cycle	>100,000 times				
	Packing(weight)	Net weight: 125g±5%/PCS; 50PCS/Carton; 6.65kg±5%/Carton; C	Carton Size: 319*254*136mm(L*W*H)			
	Dimension	150*43*29mm (L*W*H)				



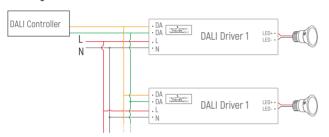
Dimension(mm)



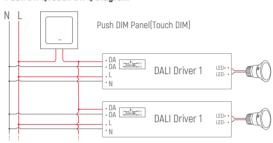
DALI Wiring



DALI Diagram



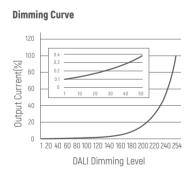
Push DIM(Touch DIM) Diagram

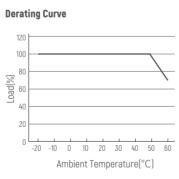


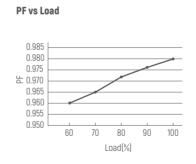
Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

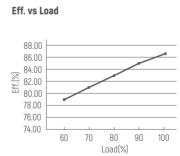
Push DIM Function

- 1. Press the Push DIM (Touch DIM) switch for 8s or more, the driver can be controlled via Push DIM switch.
- 2. Short press the Push DIM (Touch DIM) switch (<0.5s) to control the lamp on or off.
- 3. Long press the Push DIM (Touch DIM) switch (>0.5s) to dim the brightness of light. The dimming direction will change every time after pressing switch.
- 4. Double-click the Push DIM (Touch DIM) switch (<0.3s), then all lamps connected on the device will be set maximum brightness.
- 5. The brightness adjustment range is 1%-100%, and the light can be turned off through short pressing when doing the adjustment with long pressing Push DIM (Touch DIM) switch.
- 6. With the Power off memory function, the power-down state will be recovered when power on again.









Max. quantity of drivers per miniature circuit breaker

MCB type	B16	C16	
Installation	1.5mm² 1.5mm²		
Quantity	36	45	

Max. distance between independent use LED driver and LED modules

Distance	5m/16ft	10m/32ft	20m/65ft	30m/98ft
Cable Section	0.5mm²/AWG20	0.5mm²/AWG20	1mm²/AWG17	2.5mm²/AWG13

^{**} 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.