

EUP30D-1HMC-0 (Product No.:102100251101)

Summary

EUP30D-1HMC-0 is a 30W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386. EUP30D-1HMC-0 can be connected to DALI main controller or Touch DIM(Push 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(Push DIM) function
- High efficiency up to 87 %
- 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



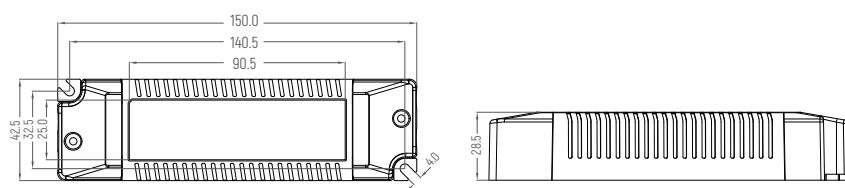
Application



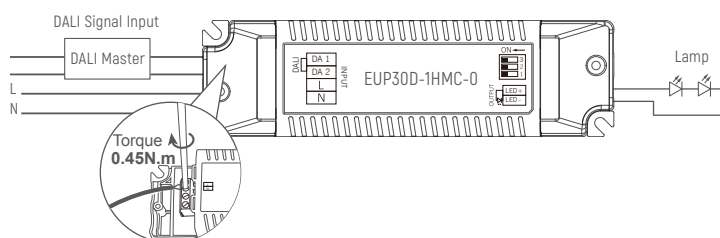
Technical Paramaters

Model	EUP30D-1HMC-0				
Input	Efficiency	87%@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)	0.17Amax@230VAC			
	Standby power	<0.5W			
	Inrush Current(max)	Cold start,28A(twidth=30us measured at 50% Ipeak)@230VAC			
Output	Current(mA)/Voltage (VDC)	550mA/9-45VDC/24.75W	600mA/9-45VDC/27W	650mA/9-45VDC/29.25W	700mA/9-43VDC/30.1W
	Power(W)	750mA/9-40VDC/30W	800mA/9-38VDC/30.4W	850mA/9-35VDC/29.75W	900mA/9-34VDC/30.6W
	Ripple Current	<3%			
	Channel	1			
	Current Tolerance	±5%			
	No load output voltage	55V Max			
Function	Dimming Type	DALI /Touch DIM(Push DIM)			
	Dimming Range	0.1%-100% Dimming to off			
Protection	Short Circuit	Shut down the output, recovers automatically after fault removed			
	Over Load	The output current decreases and, recovers automatically when the load is reduced.			
	Over Voltage	The output current decreases and, recovers automatically when the load is reduced.			
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 62386-207: 2009, DALI 1.0			
	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	85°C			
	Material	ABS			
	IP Rating	IP20			
	Lifetime	50,000h@tc:75°C			
	Warranty Condition	5 Years			
	Switch Cycle	>100,000 times			
	Packing(weight)	Net weight: 125g±5%/PCS; 50PCS/Carton; 6.75kg±5%/Carton; Carton Size: 319*254*136mm(L*W*H)			
	Dimension	150*42.5*28.5mm (L*W*H)			

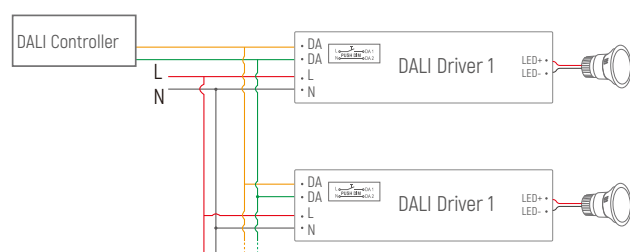
Dimension(mm)



DALI Wiring



DALI Diagram



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

Push DIM Function

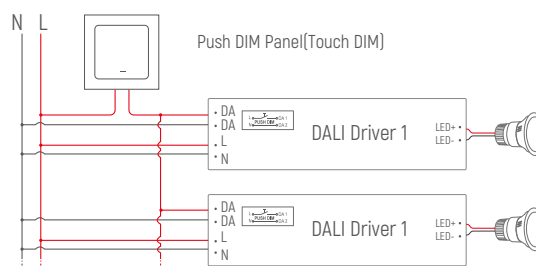
1. Press the Push DIM (Touch DIM) switch for 8s or more, the driver can be controlled via Push DIM switch.
2. Short press the Push DIM (Touch DIM) switch (<0.5s) to control the lamp on or off.
3. Long press the Push DIM (Touch DIM) switch (>0.5s) to dim the brightness of light. The dimming direction 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.

Current Selection Table

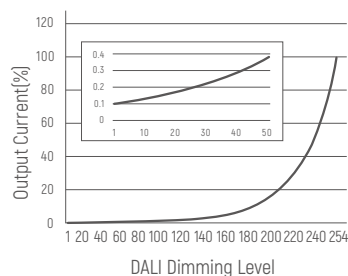
ON	OFF								
		550mA 9-45V	600mA 9-45V	650mA 9-45V	700mA 9-45V	750mA 9-40V	800mA 9-38V	850mA 9-35V	900mA 9-34V

Remark: Function default setting is: 550mA (@switch are all OFF state)

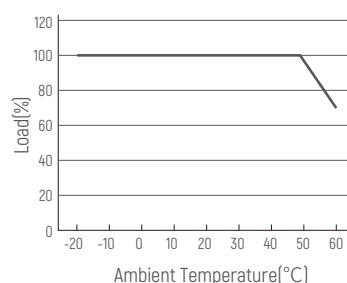
Push DIM(Touch DIM) Diagram



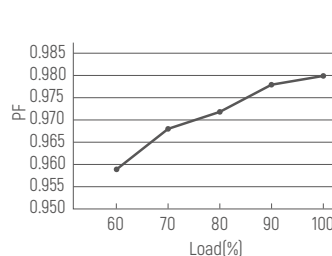
Dimming Curve



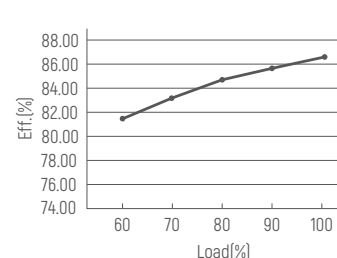
Derating Curve



PF vs Load



Eff. vs Load



Max. quantity of drivers per miniature circuit breaker

MCB type	B16	C16
Installation	1.5mm ²	1.5mm ²
Quantity	36	45

Max. distance between independent use LED driver and LED modules

Distance	5m/16ft	10m/32ft	20m/65ft	30m/98ft
Cable Section	0.5mm ² /AWG20	0.5mm ² /AWG20	1mm ² /AWG17	2.5mm ² /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 .