

427.PCK.445

DALI Constant Current Dimmable Driver

EUP10D-1HMC-0-350



- Single channel output, output current level selectable by DIP S.W.
- Meet DALI Protocol IEC 62386-207
- Support Touch DIM (Push DIM)function
- High efficiency up to 80%
- Built-in active PFC function
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, no load
- Suitable for indoor LED lighting application, such as down light, spot light, and so on



Technical Parameters

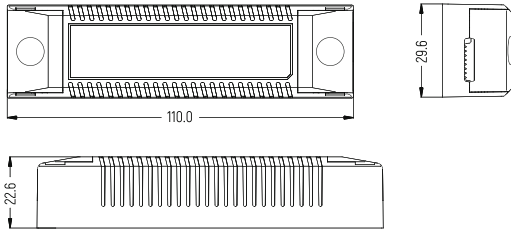
Model	PCK.445				
Input	Efficiency	>80%@230VAC, Full load			
	Voltage	220VAC-240VAC			
	Frequency	50/60Hz			
	Power Factor	0.95@230VAC, Full load			
	THD	<10%@230VAC, Full load			
	Current	0.06Amax@230VAC, Full load			
	Inrush Current	cold start,10A(twidth=10us measured at 50% Ipeak@230VACC			
Output	Current/voltage/power	350mA/2-24VDC/8.4W 400mA/2-24VDC/9.6W	450mA/2-22VDC/9.9W 500mA/2-20VDC/10W	550mA/2-18VDC/9.9W 600mA/2-16VDC/9.6W	650mA/2-15VDC/9.75W 700mA/2-14VDC/9.8W
	Ripple Current	<3%			
	Channel	1			
	Current Tolerance	±7%			
	Standby Power	<0.5W			
	No Load Output Voltage	30V Max			
	Turn On Delay Time	<1s, at 230Vac			
Function	Dimming Mode	DALI			
	Dimming Range	1%-100%			
Protection	No Load	The LED Driver will not be damaged.			
	Short Circuit	No Output, recovers automatically after fault condition is removed			
	Over Load	Hiccup mode, recovers automatically after fault condition is removed			
Safety	Surge	L-N:500V			
	Withstand Voltage	I/P-O/P: 1500VAC			
	DALI Standrad	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC 62386-207: 2009, DALI 2.0			
Others	Working Temp.	-20°C~50°C			
	Storage Temp.; Humidity	-40°C~85°C, 20-90%RH			
	Tc	75°C			
	Material	PC			
	IP Rating	IP20			
	Lifetime	50,000h@tc:75°C			
	Warranty Condition	5 years			
	Switch Cycle	>100,000 times			
	Packing Size	515*235*140mm(L*W*H), 9.5Kg/Carton/100PCS			
	Dimension	110*30*22.5mm(L*W*H)			
	G.W	90g			

Current Selection Table									
ON	OFF	1	2	3	4	5	6	7	8
		350mA	400mA	450mA	500mA				
		2-24V	2-24V	2-22V	2-20V				
ON	OFF	9	10	11	12	13	14	15	16
		550mA	600mA	650mA	700mA				
		2-18V	2-16V	2-15V	2-14V				

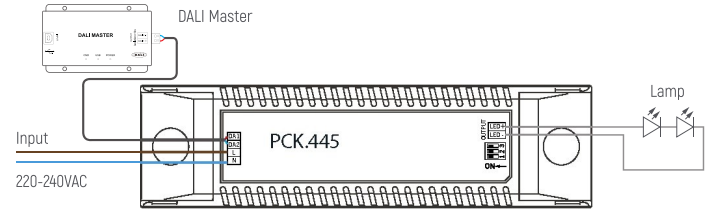
Remark: Function default setting is: 350mA (@switch are all OFF state)

Touch DIM(Push DIM)

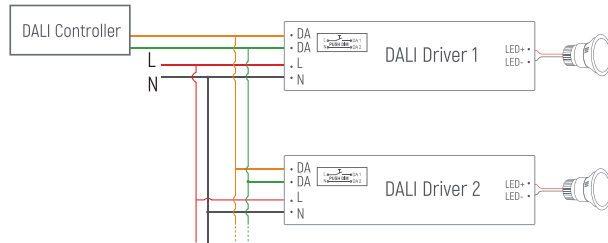
Dimension(mm)



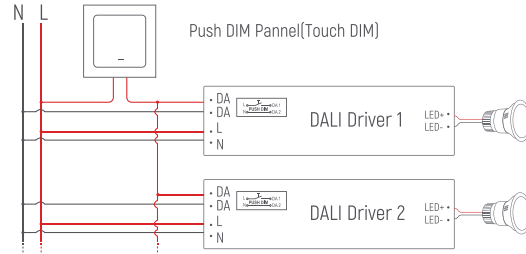
Wiring Diagram



DALI Wiring Diagram



Push DIM(Touch DIM) Diagram



Remarks: use only open push switch (without indicator light). When using synchronous connection, the line length between each device and equipment shall not exceed 20 meters.

Push DIM Function

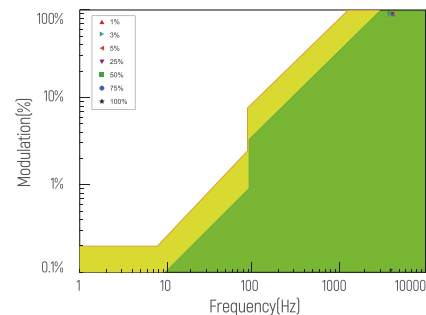
1. Press the Touch DIM switch for 8s or more, the driver can be controlled via Touch DIM switch.
2. Short press the Touch DIM switch (<0.5s) to control the lamp on or off.
3. Long press the Touch DIM switch (>0.5s) to dim the brightness of light. The dimming direction will change every time after pressing switch.
4. Double-click the 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 Touch DIM switch.
6. With the Power off memory function, the power-down state will be recovered when power on again.

Typical flicker performance

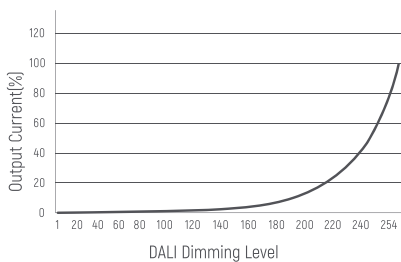
Typical flicker percent as a function of frequency, measured across the dimming range. The results are overlaid with the low-risk (yellow) and no observable effect (green) levels as defined in IEEE P1789.

Risk levels verdict :

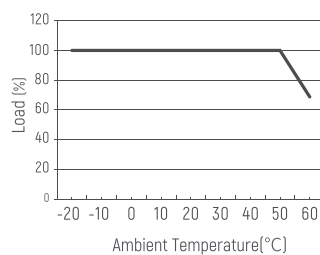
- (1) Below 90 Hz, Modulation (%) is less than $0.025 \times \text{frequency}$.
- (2) Between 90 Hz and 1250 Hz, Modulation (%) is below $0.08 \times \text{frequency}$.
- (3) Above 1250 Hz, there is no restriction on Modulation (%).



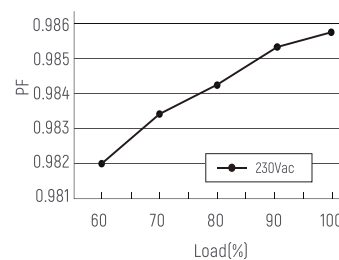
Dimming Curve



Derating Curve



PF vs Load



Eff. vs Load

