CCDALI0221V700MA Summary

CCDALI0221V700MA is a 10W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386. CCDALI0221V700MA can be connected to DALI main controller or Touch DIM(Push DIM) to achieve a smooth dimming effect.

Product Feature

·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

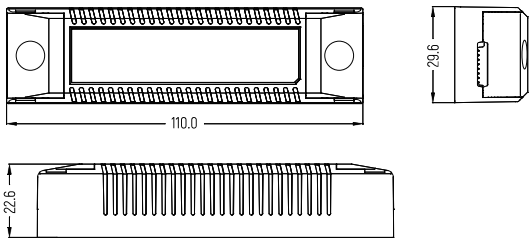
Model	CCDALI0221V700MA				
Input	Efficiency	>80%@230VAC, Full load			
	Voltage	220VAC-240VAC			
	Frequency	50/60Hz			
	Power Factor	0.95@230VAC, Full load			
	THD	<10%@230VAC, Full load			
	Current	0.06Amax@230VAC, Full load			
	Inrush Current	cold start,10A(twidth=10us measured at 50% Ipeak@230VACC			
Output	Current/voltage/power	350mA/2-24VDC/8.4W	450mA/2-22VDC/9.9W	550mA/2-18VDC/9.9W	650mA/2-15VDC/9.75W
		400mA/2-24VDC/9.6W	500mA/2-20VDC/10W	600mA/2-16VDC/9.6W	700mA/2-14VDC/9.8W
	Ripple Current	<3%			
	Channel	1			
	Current Tolerance	±5%			
	Standby Power	<0.5W			
	No Load Output Voltage	30V Max			
	Turn On Delay Time	<1s, at 230Vac			
Function	Dimming Mode	DALI	Touch DIM(Push DIM)		
	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 1.0			
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

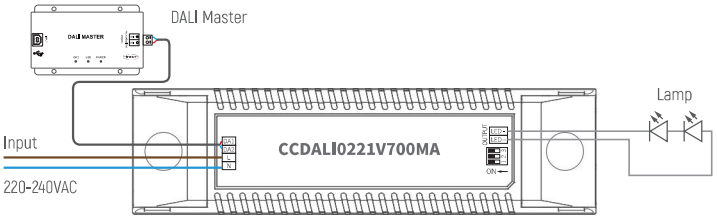
ON	OFF	1	2	3								
					350mA	400mA	450mA	500mA				
					2-24V	2-24V	2-22V	2-20V				
					550mA	600mA	650mA	700mA				
					2-18V	2-16V	2-15V	2-14V				

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

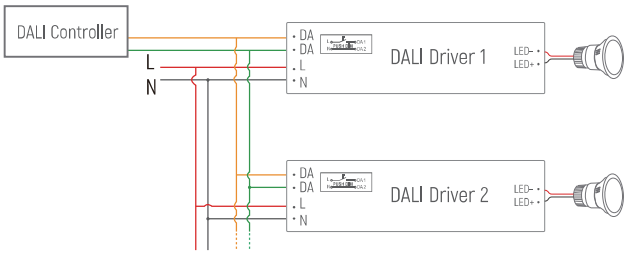
Dimension(mm)



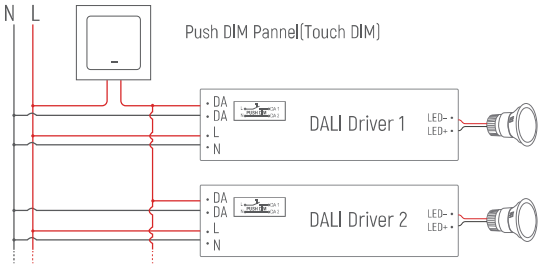
Wiring Diagram



DALI Wiring Diagram



Push DIM(Touch DIM) Diagram

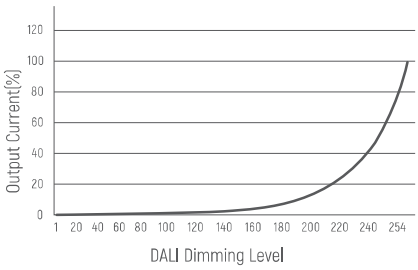


Remarks: use only open push switch (without indicator light). When using synchronous connection, the line length between each device and equipment shall not exceed 20 meters.

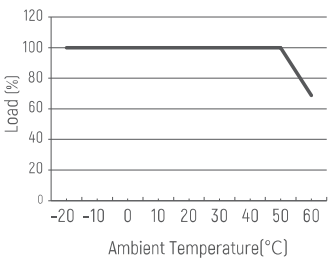
Push DIM Function

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.

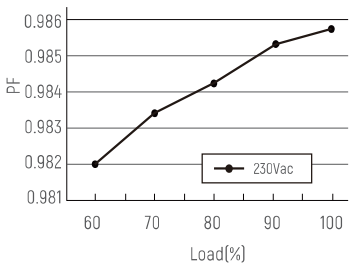
Dimming Curve



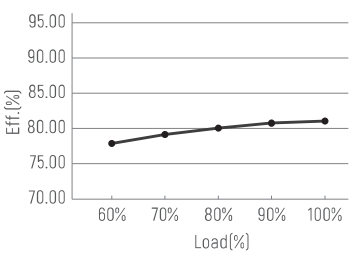
Derating Curve



PF vs Load



Eff. vs 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 .