JISIM 仟思盟[®]

Bluetooth Dimmable LED Driver

LA C € SELV ErP RoHS @ B & CB

Product introduction

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JISIM JD5110C is a constant voltage LED intelligent dimming driver. It is a product specially designed for indoor constant voltage lamps. It supports Bluetooth dimming function. The customized dimming curve section makes the human eye more comfortable; when no external signal is connected, it can be used as a non-dimming driver; It is suitable for LED strips, linear lamps, lamp films, magnetic lamps, decorative lamps; It is widely used in smart homes, smart hotels, smart commercial lighting, smart offices, smart buildings, large public buildings, etc. Places.

Product Features

- Compact SELV independent dimmable driver
- Support Bluetooth dimming
- Globally certified,SELV equivalent
- Suitable for class | II III luminaires
- Output power up to 150W, globally certified
- \bullet Up to 50000 hours life time, 5-Year Warranty(Long-lasting Capacitor)
- Smooth dimming, no stroboscopic, no noise, dimming range:0.1-100%
- Small size and light weight, High power factor, High Efficiency, Low THD
- The housing is made from Vo flame retardant PC materials from CHIMEI
- Standby power consumption <0.5 W,meets ErP energy efficiency certification





Technical Specifications (All parameters not specially mentioned are measured at 230VAC input, full load and 25°C of ambient temperature)

Model	JD5110C				Output Type Constant Voltage				
	DC Voltage Range 220-240V					Communication mode	Bluetooth		
	AC Voltage Range	220-240V			Features	Output Feature	Isolation		
	Rated Voltage	220Vac/230Vac/240Vac				IP Rating	IP20		
	Input Frequency	0/50/60Hz				Insulation Rating	Class II (Suitable f	or class I II III light fixtures)	
	Input Current	≤0.9A/230Vac(at full load)				No Load Output Voltage	≤25Vdc		
Innut	Input Power	Max.165W				Rated Voltage	24Vdc		
Input	Power Factor	PF>0.95C/	′230Vac(at full load)			Output Current Range	Max.6.3A		
	THD	THD<5%/2	30Vac(at full load)		Output	Output Power Range	150W		
	Efficiency	≥91%(at fu	ull load)		Output	Dimming Range	0.1~100%		
	Inrush Current	<75A&230uS@230Vac				Ripple	Max.240mV		
	Anti-Surge	L-N:1KV				Voltage Accuracy	±5%		
	Leakage Current	<0.5mA/230Vac				PWM Frequency	16000Hz		
	Overload	otection Hiccup Mode (Auto-Recovery after Elimination)			Environment	Working Temperature	ta:-20°C~45°C		
	Protection					Working Humidity	20~95%RH(No	Condensation)	
Protection	Open Circuit Protection	≤25Vdc				Storage Temperature/Humid	ity -20~85°C/10~95	5%RH	
	Stort Circuit	Hiccup Mode (Auto-Recovery after Elimination)				Case Temperature	tc:90°C		
	Protection					Life Time	>50000h@tc=9	90°C	
	Withstand Voltage	I/P-O/P:375	50Vac, 5mA,60s				<u>'</u>		
	Insulation Resistance	I/P-O/P:100	0MΩ/500VDC/25°C/7	'0%RH					
		CCC	China	GB19510.1, GB19510.14					
	Safety Standards	CE	European Union	EN61347-1, EN61347-2-13, EN62493					
		KC	Korea	KC61347-1, KC61347-2-13					
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493					
		ENEC	Europe	EN61347-1, EN61347-2-13, EN IEC62384					
		СВ	CB Member States	IEC61347-1, IEC61347-2-13					
		RCM	Australia	AS/NZS61347.1, AS61347.2.13					
		BIS	India	IS15885(PART2/SEC13)					
Safety		EAC	Russia	IEC61347-1, IEC61347-2-13					
&		UKCA	United Kingdom	BS EN61347-1, BS EN IEC61347-2-13, BS EN62493					
EMC	EMC Emission	CCC	China	GB/T17743, GB17625.1					
		CE	European Union	EN IEC55015, EN IEC61000-3-2, EN61000-3-3					
		KC	Korea	KSC9815, KSC9547					
		RCM	Australia	EN IEC55015, EN IEC61000-3-2, EN61000-3-3					
		UKCA	United Kingdom	BS EN IEC55015, BS EN IEC6100-3-2, BS EN61000-3-3					
		EAC	Russia	IEC62493.IEC61547, EN55015.IEC61000-3-2, IEC61000-3-3					
		BIS	India	IS15885(PART2/SEC13)					
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11,EN61547							
	Flicker/	IEEE1789		Meet IEEE Std1789-2015					
ErP	Stroboscopic Effect	CIESVM		Pst≤1, SVM≤0.4					
	DF	Phase Factor		DF≥0.9					
		AC Source DC Electronic Load		PS-61005	Withstand Vo	oltage Tester	TH9302D	Other	
				IT8512A+		_	HT-H-802		
Test	: Equipment	Spectrum Analyzer		KH3932		-	PF9800		
		Surge Generator						LED Load	
		Surge Gene	erator	SUG61005TB(7.5KV)-2216	Oscilloscope		TBS1102B	LED Load	

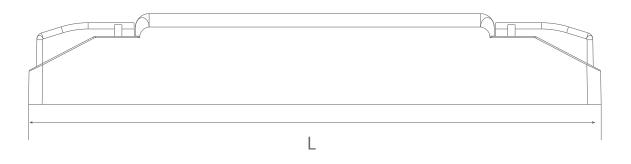
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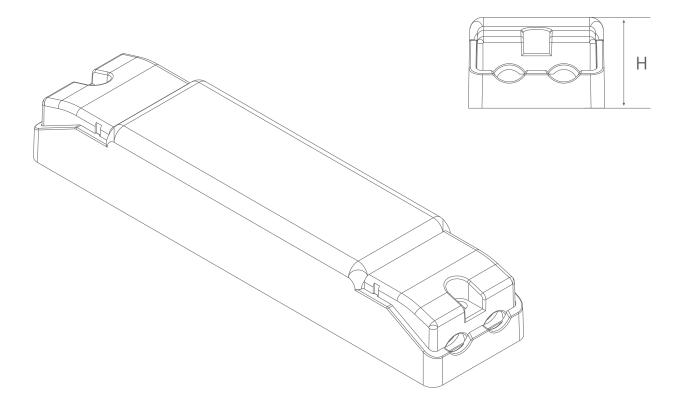
2D Diagram



Length (L)	Width (D)	Heigh(H)	Weight(W)	
325mm	44mm	30mm	363.1±10g	









Wiring Diagram



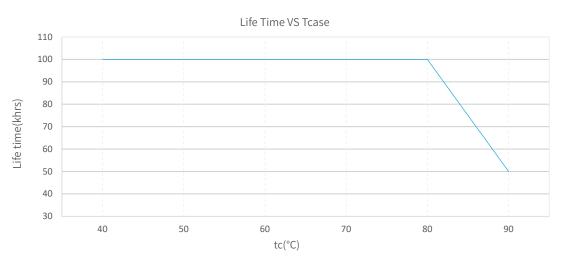
Installation Instructions

Interface	Marking	Description	Wire cross section	Wire Stripping length
l lanut	N I	Input terminal of AC neutral wire	0.751.5mm²(16-18AWG)	56mm
i Input	L	Input terminal of AC live wire	0.751.5mm²(16-18AWG)	56mm
Output	LED+	Positive electrode output of the driver	0.752.5mm²(14-18AWG)	56mm
output I	LED-	Negative electrode output of the driver	0.752.5mm²(14-18AWG)	56mm

Connection instructions

- 1.Rated torque: M2.6,0.35~0.40N.m
- $2. All\ connections\ must\ be\ as\ short\ as\ possible\ to\ ensure\ good\ EMI\ performance.$
- 3. Driver output support hot swap.
- 4.Incorrect wiring can damage the LED.
- 5. The power cable should be kept at a certain distance from the driver and other connecting cables (5-10cm recommended) and the power cable should be kept at a certain distance from the driver and other connecting cables (5-10cm recommended).

Product Characteristic Curves



The life-time of the LED driver is shown in the figure above calculated (based on the 90% survival rate). The relation of tc to ta temperature depends also on the luminaire design.



Packaging Image Packaging Image



Packaging Size	>>>>

Packaging Details	Carton Size	Packing Units	Weight
Inner Packaging Box	329x 49 x 34mm	1pcs	403.2±10g
Small Carton Packaging	350 x 197 x 167mm	13pcs	5.55kg
Large Carton Packaging	420 x 360 x 365mm	52pcs	23.1kg

Packaging instructions:

 $Each \ large\ carton\ packaging\ contains\ 4\ small\ carton\ packagings, Each\ small\ carton\ packaging\ contains\ 13\ inner\ packaging\ boxes.$

Cautions

- > This product is used as a componentin conjunction with a lighting fixture. Due to the influence of EMC from the lighting fixture and wiring, customers should perform EMC testing to confirm the entire product set.
- ▶ No operation with power on. Installation and debugging should be performed by qualified professionals. Please read the product manual carefuly before installation.
- ► This product can only beused outside the light body, Cannot be used inside of the light, and it must be used within the specified working environment.
- This product is not waterproof and should be avoided from direct sunlight and rain. fit is installed outdoors, please use a waterproof case.
- > Good heat dissipation conditions are beneficial to the product's lifetime. Please install the product in a suitable environment, and strictly prohibit using double-sided tape to attach the casing or circuit board.
- > Please check the parameters of the LED driver to ensure they meet the application requirements of the lighting fixture.
- > Please install according to the standard wire gauge specified in the manual to avoid malfunctions caused by inappropriate wiring.
- ▶ Before powering on, please ensure that the wiring is correct to prevent damage to the driver or lighting fixture caused by incorrect wiring.
- ► If a malfunction occurs, please do not attempt to repair it yourself, if you have any questions, please contact the manufacturer.
- ➤ The manual is for reference only. Please refer to the actual product. Any changes to this product will not be notified separately.
- ➤ For more information, please send an email to fei.l@jisim-tech.com.



Warranty Terms

- > The product is warranted for 5 years. (The life and MTBF of the product are for reference only, and do not represent a warranty statement.)
- ➤ During the warranty period, if any quality issues arise, JISIM will provide free repair or replacement services.

Non-Warranty Terms

The following situations are not covered by the free warranty or replacement service:

- ➤ The warranty period has expired.
- ➤ Damage caused by human factors such as overvoltage, overload, or improper operation.
- ➤ Deformation or damage to the exterior appearance.
- ➤ Damage caused by natural disasters or other irresistible human factors.
- ➤ The warranty label has been torn off or removed.
- ➤ No contract or invoice proof is provided.



Notice:

- 1. Repair or replacement provided is the only remedy for customers. JISIM is not liable for any incidental or consequential damage unless it is within the law.
- 2. JISIM has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.