

2.4GRF Tunable White Dimmable LED Driver 2.46 LK CESELV ErP RoHS @ & CB

Product introduction

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JISIM JD9231 is a constant voltage LED intelligent tunable white dimming driver. It is a product specially designed for indoor constant voltage lamps. It supports 2.4G RF 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 2.4G RF tunable white dimming
- Globally certified, SELV equivalent
- Suitable for class | II III luminaires
- Output power up to 150W, globally certified
- 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)

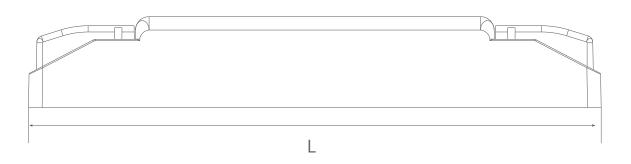
Model	JD9231					Output Type	Constant Volta	age		
	DC Voltage Range	220-240V			1	Communication mode	2.4G RF			
	AC Voltage Range	220-240V			Features	Output Feature	Isolation			
	Rated Voltage	220Vac/230Vac/240Vac			1	IP Rating	IP20			
	Input Frequency	0/50/60Hz				Insulation Rating	Class II (Suitable	for class I II III light fixtures)		
	Input Current	≤0.9A/230Vac(at full load)				No Load Output Voltage	≪49Vdc			
	Input Power	Max.165W			Output	Rated Voltage	48Vdc			
Input	Power Factor	PF>0.95C/	230Vac(at full load)			Output Current Range	Max.3.1A			
	THD	THD<5%/23	30Vac(at full load)			Output Power Range	150W			
	Efficiency	≥91%(at fu	ıll load)			Dimming Range	0.1~100%			
	Inrush Current	<75A&230u	S@230Vac			Ripple	Max.480mV			
	Anti-Surge	L-N:1KV				Voltage Accuracy	±5%			
	Leakage Current	<0.5mA/230	0Vac			PWM Frequency	16000Hz			
	Overload	Hiccup Mode (Auto-Recovery after Elimination)		tor Elimination)		Working Temperature	ta:-20°C~45°C			
	Protection	Thecap Mode (Auto-Recovery after Ellillination)		Environment	Working Humidity	20~95%RH(No	Condensation)			
Protection	Open Circuit	≤49Vdc			Storage Temperature/Hun	nidity -20~85°C/10~9	95%RH			
l rotection	Trotection					Case Temperature	tc:90°C			
	Stort Circuit Protection	Hiccup Mod	le (Auto-Recovery af	ter Elimination)	Life Time		>50000h@tc=	=90°C		
	Withstand Voltage	I/P-O/P:375	50Vac, 5mA,60s							
	Insulation Resistance	I/P-O/P:100)MΩ/500VDC/25°C/7	9%RH						
		CCC								
	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,EN61								
	Flicker/ Stroboscopic Effect	IEEE1789		Meet IEEE Std1789-2015						
ErP		CIESVM		Pst≤1, SVM≤0.4						
	DF	Phase Factor		DF≥0.9						
		AC Source		PS-61005	Withstand Vo	oltage Tester	TH9302D	2		
		DC Electronic Load		IT8512A+	Thermostation	: Humidity Chamber	HT-H-802	Other		
Tes	t Equipment	Spectrum Analyzer		KH3932		ectrical Parameter Meter	PF9800			
rest Equipment		Surge Generator		SUG61005TB(7.5KV)-2216	Oscilloscope		TBS1102B	LED Load		
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		Stroboscope		LANSHU-201B	Digital Wattn	ietei	PM2818C			

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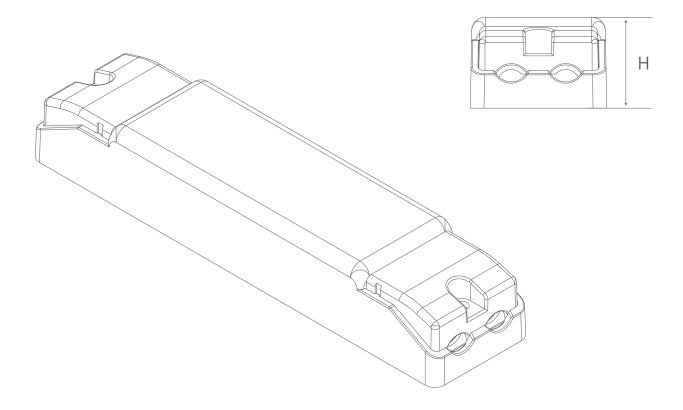


2D Diagram

Length (L)	Width (D)	Heigh(H)	Weight(W)	
325mm	44mm	30mm	365.1±10g	









Wiring Diagram



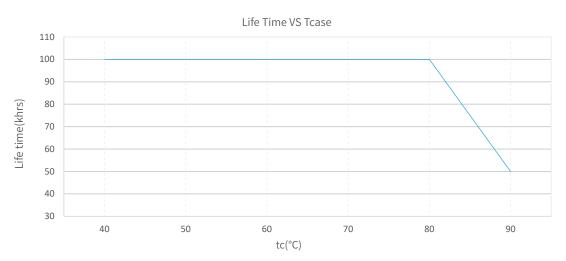
Installation Instructions

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



<u>-</u> ·	Packaging Details	Carton Size	Packing Units	Weight	

Inner Packaging Box 329x 49 x 34mm 1pcs 405.2 \pm 10g	
Small Carton Packaging 350 x 197 x 167mm 13pcs 5.56kg	
Large Carton Packaging 420 x 360 x 365mm 52pcs 23.2kg	

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.