

## Product introduction

JISIM JD4106 is a constant voltage LED intelligent dimming driver. It is a product specially designed for indoor constant voltage lamps. it supports deep dimming functions such as ZigBee dimming. 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 ZigBee dimming
- Global certification, SELV equivalent
- Suitable for Class I / II / III indoor light fixtures
- Smooth dimming, flicker-free, dimming range: 1-100%
- Max. output power 48W
- Up to 50000 hours life time, 5-Year warranty (Long-lasting Capacitor)
- Small size and light weight, High efficiency
- The housing is made from V0 flame retardant PC materials from CHIMEI

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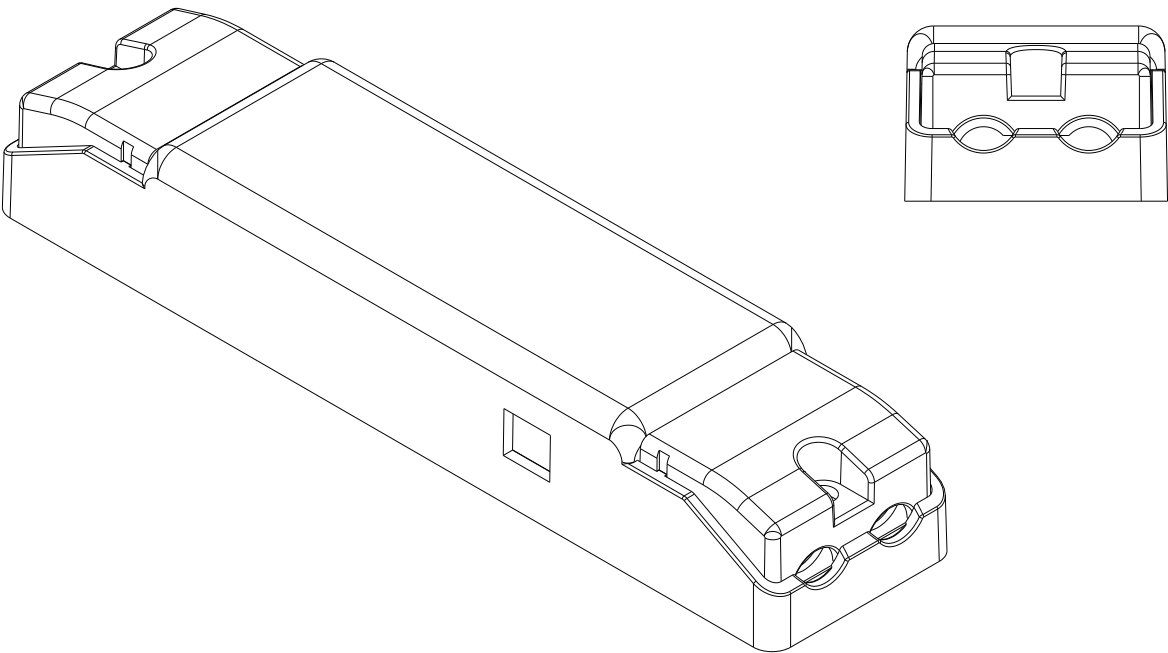
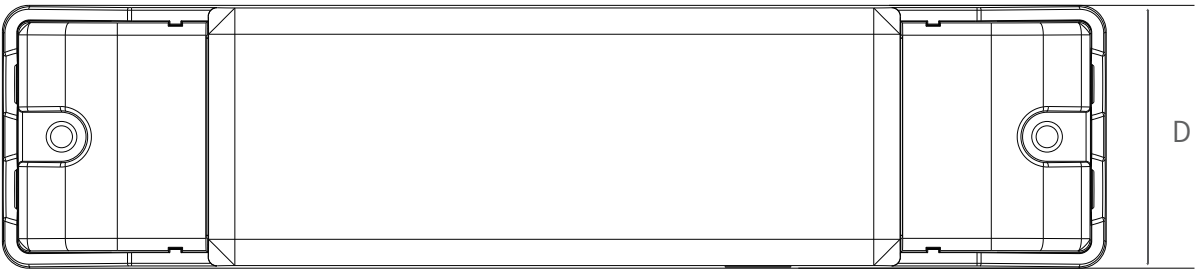
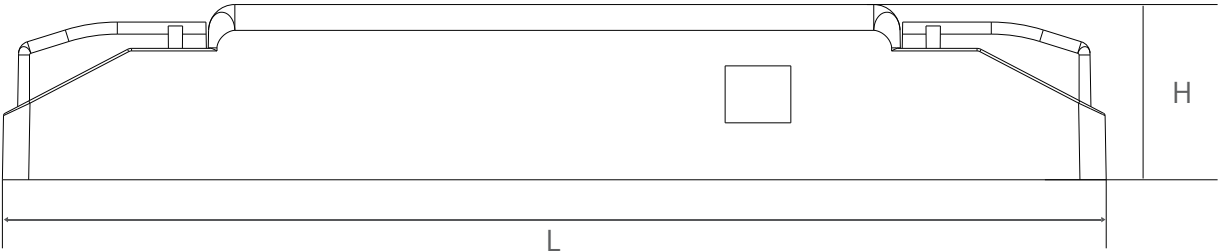


## Technical Specifications (All parameters not specially mentioned are measured at 230VAC input, full load and 25°C of ambient temperature)

Model	JD4106			Features	Output Type	constant voltage	
Input	DC Voltage Range	220-240V			Communication mode	ZigBee	
	AC Voltage Range	220-240V			Output Feature	Isolation	
	Rated Voltage	220Vac/230Vac/240Vac			IP Rating	IP20	
	Input Frequency	50/60Hz			Insulation Rating	Class II (Suitable for class I II III light fixtures)	
	Input Current	≤0.4A/230Vac(at full load)		Output	No Load Output Voltage	≤25Vdc	
	Input Power	Max.55.5W			Rated voltage	24Vdc	
	Efficiency	≥88%(at full load)			Output Current	Max.2A	
	Inrush Current	Cold start 15A(Test twidth=102us under 50% Ipeak@230Vac)			Output power	Max.48W	
	Anti-Surge	L-N:4KV			Dimming Range	1~100%	
	Leakage Current	<0.5mA/230Vac			Ripple	Max.240mV	
			Voltage Accuracy		±5%		
			PWM Frequency	16000Hz			
Protection	Overload Protection	Hiccup Mode (Auto-Recovery after Elimination)		Environment	Working Temperature	ta:-20°C~45°C	
	Open Circuit Protection	≤25Vdc			Working Humidity	20~90%RH(No Condensation)	
	Stort Circuit Protection	Hiccup Mode (Auto-Recovery after Elimination)			Storage Temperature/Humidity	-40~85°C/5~95%RH	
			Case Temperature		tc:90°C		
Safety & EMC	Withstand Voltage	I/P-O/P:3750Vac, 5mA,60s					
	Insulation Resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH					
	Safety Standards	CCC	China	GB19510.1, GB19510.14			
		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			
		CB	CB Member States	IEC61347-1, IEC61347-2-13			
		RCM	Australia	AS/NZS61347.1, AS61347.2.13			
		BIS	India	IS15885(PART2/SEC13)			
EAC	Russia	IEC61347-1, IEC61347-2-13					
UKCA	United Kingdom	BS EN61347-1, BS EN IEC61347-2-13, BS EN62493					
ErP	Flicker/ Stroboscopic Effect	IEEE1789		Meet IEEE Std1789-2015			
		CIESVM		Pst≤1, SVM≤0.4			
	DF	Phase Factor		DF≥0.9			
Test Equipment	AC Source		PS-61005	Withstand Voltage Tester		TH9302D	Other
	DC Electronic Load		IT8512A+	Thermostatic Humidity Chamber		HT-H-802	
	Spectrum Analyzer		KH3932	Ntelligent Electrical Parameter Meter		PF9800	LED Load
	Surge Generator		SUG61005TB(7.5KV)-2216	Oscilloscope		TBS1102B	
	Stroboscope		LANSHU-201B	Digital Wattmeter		PM2818C	

2D Diagram >>>----->>>>

Length (L)	Width (D)	Heigh(H)	Weight(W)
165mm	42mm	30mm	185.7±10g



ZigBee Dimmable LED Driver

Wiring Diagram



Installation Instructions

Interface	Marking	Description	wire cross Section	wire Stripping Length
Input	L	Input terminal of AC live wire	0.75...1.5mm²(16-18AWG)	5...6mm
	N	Input terminal of AC neutral wire	0.75...1.5mm²(16-18AWG)	5...6mm
Output	LED+	Positive electrode output of the driver	0.75...2.5mm²(13-18AWG)	5...6mm
	LED-	Negative electrode output of the driver	0.75...2.5mm²(13-18AWG)	5...6mm

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)

App operation Instructions

1.Account Registration

Download and install the Tuya Smart App on IOS/Android. Once installed, you can proceed with login/registration.

2.Adding Devices

After new users navigate to "My" > "Family Management" > "Create Family" to set up family location and manage room names, they can click on the "My Home" interface to "Add Device". When the device is powered on, the light will enter a breathing state. In the add device list, select "Auto-Discover" to automatically search for devices. The "1Ch Driver CW CVV" can be automatically discovered. Follow the prompts to complete device addition (ensure the device is powered on or reset and in breathing mode,and that a Bluetooth gateway has been added).

3.Function Settings

After the device is successfully added, click on it to enter the specific lighting control interface, where you can freely control the device to turn on/off, adjust brightness, create groups, set schedules, and access more functions.

4.Scenes and Automation

Based on individual needs, users can customize scenes and automations, with features such as a lighting scenario library, lighting music library, and biorhythmic lighting.

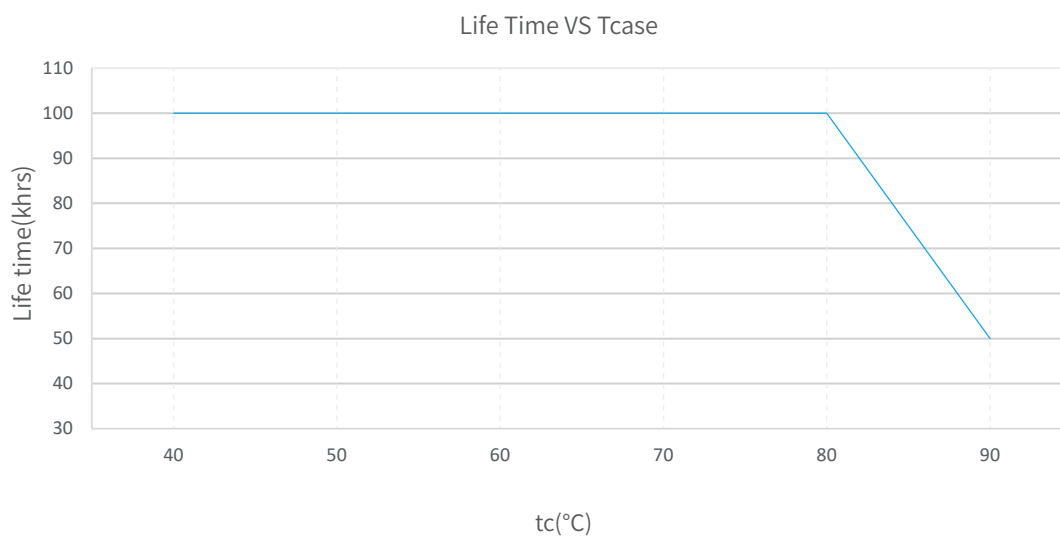
5.Resetting Devices

To reset a device, quickly toggle the power on and off seven times. When the light enters breathing mode, it indicates that the device has been successfully reset and is ready for network configuration.

6.Voice Control

The device supports control via Amazon Alexa, Google Assistant, SmartThings, Yandex Alice, Tmall Genie, Baidu Duer, Xiaomi XiaoAI, XiaoZhi Guanjia, Tencent WeChat Mini Programs, Tencent Dingdang, JD DingDong, and other voice assistants.

## 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



◀ Inner Packaging Box



◀ Small Carton Packaging



◀ Large Carton Packaging

## ZigBee Dimmable LED Driver

## Packaging Size

Packaging Details	Carton Size	Packing Units	Weight
Inner Packaging Box	168x47x34mm	1pcs	202±10g
Small Carton Packaging	350 x 197 x 167mm	30pcs	6.36kg
Large Carton Packaging	420 x 360 x 365mm	120pcs	26.3kg

## Packaging instructions:

Each large carton packaging contains 4 small carton packagings, Each small carton packaging contains 30 inner packaging boxes.

## Cautions

- This product is used as a component in 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 carefully before installation.
- This product can only be used 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. If it 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](mailto: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.