JISIM 仟思盟

Phase-Cut Dimmable LED Driver

LK @ **® ©** CB C € SELV ErP RoHS

Product introduction

JISIM JD1131 is a 21W constant current LED intelligent dimmable driver specifically designed for small aperture luminaires. It supports phase-cut dimming. The customized dimming curve provides a more comfortable viewingexperience forthe human eye. When not connected to an external signal, it can be used as a non-dimmable driver and it is suitable for small aperture downlights, spotlights, Panellights, linear lights. Paired with various intelligent control systems, it is widely used in smart homes, smart hotels, intelligent commercial spaces, smart offices, smart buildings, and other facilities.

Product Features

- Input voltage: 220-240Vac, global certification.
- V0 fire rating, Taiwan Chimei PC shell.
- Compact SELV independent dimming driver.
- Applicable to Class I/II/III indoor lighting fixtures.
- Smooth dimming, flicker-free, dimming range: 1-100%
- DIP switch for multi-level current setting, with maximum output power of 21W.
- Up to 50,000 hours of service life with 5-year warranty (long-life capacitors).
- Small size, light weight, high power factor, high efficiency, and low harmonic.
- Supports forward and reverse edge phase-cut dimming functions.
- Standby power consumption <0.5W, compliant with ErP energy efficiency certification.
- Compatible with most mainstream brand phase-cut dimmers on the market.

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



Model	JD1131				Output Type	Constant Curre	nt		
	DC Voltage Range 220-240V				Dimming Interface	Phase-Cut Dim	Phase-Cut Dimming		
Input	AC Voltage Range	220-240V			- Features	Output Feature	Isolation		
	Rated Voltage	220Vac/230Vac/240Vac				IP Rating			
	Input Frequency	50/60Hz				Insulation Rating	Class II (Suitable f	or class I II III light fixtures)	
	Input Current	≤0.2A/230Vac(at full load)				No Load Output Voltage	≤59Vdc		
	Input Power	Max.26W				Output Voltage Range	25-42Vdc		
	Power Factor	PF>0.9C/230Vac(at full load)				Output Current Range	350-500mA		
	THD	THD<10%/2	230Vac(at full load)			Output Power Range	8.75-21W	8.75-21W	
	Efficiency	≥80%(at full load)			Output	Dimming Range	1~100%		
	Inrush Current	Cold start 2.56A(Test twidth=102us under 50% Ipeak@230Va				Ripple Current	<5%	<5%	
	Anti-Surge	L-N:4KV				Current Accuracy	±5%	±5%	
	Leakage Current	<0.5mA/230Vac							
	Overload	Hiccup Mode (Auto-Recovery after Elimination)			Environment	Working Temperature	ta:-20°C~45°C	ta:-20°C~45°C	
Protection	Protection			Working Humidity		20~90%RH(No	Condensation)		
	Open Circuit Protection	≤59Vdc		Storage Temperature/Hur		nidity -40~85°C/5~95	-40~85°C/5~95%RH		
	Stort Circuit			1	1	Case Temperature	tc:75°C	tc:75°C	
	Protection	Hiccup Mode (Auto-Recovery after Elimination)				Life Time	>50000h@tc=	>50000h@tc=75°C	
	Withstand Voltage	I/P-O/P:3750Vac,5mA,60s							
	Insulation Resistance	I/P-O/P:100)MΩ/500VDC/25°C/7	0%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					
& EMC		UKCA	United Kingdom	BS EN61347-1, BS EN IEC61347-2-13, BS EN62493					
LIVIC	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,EN615	47					
	Power Consumption	Stanby Pow	er Consumption	<0.5W (PWM Off)					
ErP	Flicker/	IEEE1789 Meet IEEE Std178		Meet IEEE Std1789-2015	d1789-2015				
	Stroboscopic Effect	CIESVM Pst≤1,		Pst≤1, SVM≤0.4					
	DF	Phase Factor		DF≥0.9					
		AC Source		PS-61005 Withstand Voltage Tester TH9302D		TH9302D	Other		
		DC Electronic Load		IT8512A+	Thermostation	: Humidity Chamber	HT-H-802	Otner	
Test Equipment				KH3932	Ntelligent Ele	ectrical Parameter Meter	PF9800	LED Load	
		Surge Generator		SUG61005TB(7.5KV)-2216	Oscilloscope		TBS1102B		
				LANSHU-201B	· · · · · · · · · · · · · · · · · · ·		PM2818C	-	
		Stroboscope		FUIANIIO-ZOID	Digital Wallif	icici	I MYOTOC		

版本:20241206-1.0 www.jisim-tech.com



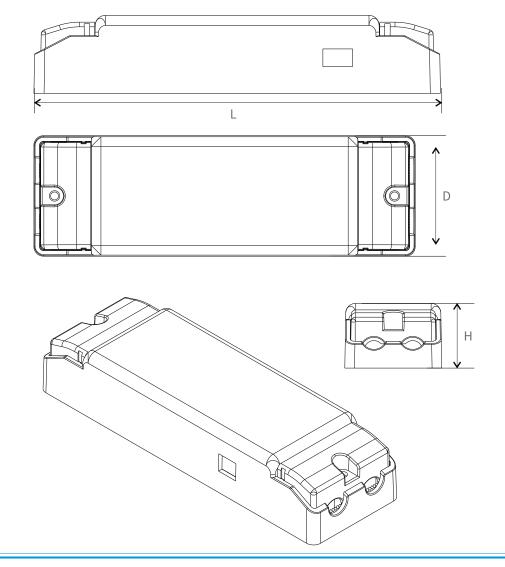
LED Current Settings

		Out	Switch Position			
Number	Current (mA)	Voltage (VDC)	NO Load Outout Voltage (VDC)	Power (W)	1	2
*1	350	25-42	i i	14.7	/	/
2	400	25-42	. 59 !	16.8	ON	/
3	450	25-42	, 59 ; , ,	18.9	/	ON
4	500	25-42		21	ON	ON

- ★ * Factory default.
 - Please disconnect the AC input before adjusting the output current via the DIP switch, If not, it may damage the lighting fixture.
 - 2. No Overload, The output power should be less than or equal to 21W.

2D Diagram







Wiring Diagram





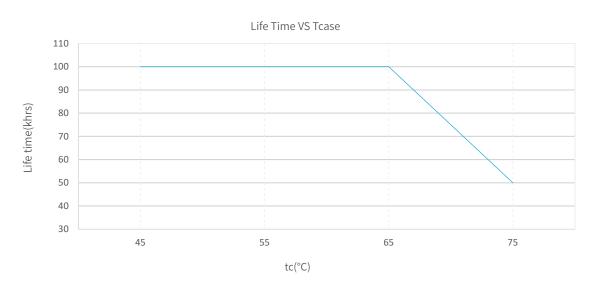
Installation Instructions

Interface	Marking	Description	wire cross Section	wire Stripping Length
I Input	L	Input terminal of AC live wire	0.751.5mm² (16-18AWG)	56mm
Input	N	Input terminal of AC neutral wire	0.751.5mm² (16-18AWG)	56mm
Output	LED+	Positive electrode output of the driver	0.51.0mm²(17-20AWG)	56mm
	LED-	Negative electrode output of the driver	0.51.0mm²(17-20AWG)	56mm

Connection instructions

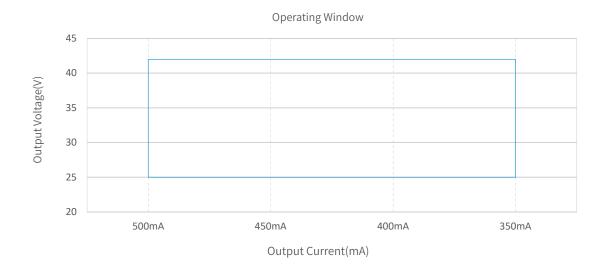
- 1.Rated torque: M2.6,0.35~0.40N.m
- 2.All connections must be as short as possible to ensure good EMI performance.
- 3.No secondary switches are allowed.
- $4. The \ driver \ output \ does \ not \ support \ hot \ swap$
- 5.Incorrect wiring can damage the LED.
- 6.The power cable should be kept at a certain distance from the driver and other connecting cables (5-10cm recommended)

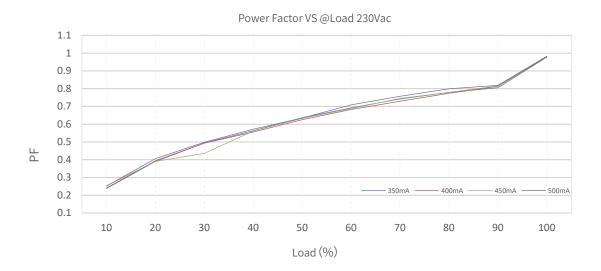
Product Characteristic Curves

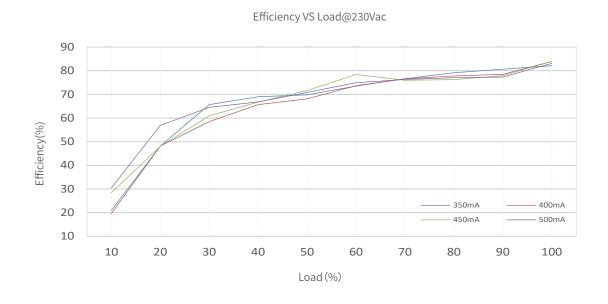


The life-time of the LED driver is shown in the figure above calculated (based on the 75% survival rate). The relation of tc to ta temperature depends also on the luminaire design.











Packaging Image >>>>



Packaging Size

Packaging Details	Carton Size	Packing Units	Weight	
Inner Packaging Box	124x41x30mm	1pcs	116±10g	
Small Carton Packaging	350 x 197 x 167mm	48pcs	5.87kg	
Large Carton Packaging	420 x 360 x 365mm	192pcs	24.4kg	

Packaging instructions:

Each large carton packaging contains 4 small carton packagings, Each small carton packaging contains 48 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 be used outside the light body, Cannot be used inside of the light, and it must be used with in the specifed 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.