JISIM 仟思盟

Phase-cut Dimmable LED Driver

LA CB CE SELV ErP RoHS

Product introduction

JISIM JD1106 is a constant-current LED intelligent dimming driver, a compact product specially designed for indoor small-aperture embedded lamps. It supports triac (forward and reverse edge phase-cut) dimming function, and has a built-in slow-bright start function. The customized dimming curve makes the human eye more comfortable. When no external signal is connected, it can be used as a conventional driver. It is suitable for LED downlights, LED linear lights, and is widely used in high-end places such as smart homes, smart hotels, intelligent commercial lighting, smart offices, and intelligent buildings.

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: 0.1-100%
- Compatible with most mainstream brand phase-cut dimmers on the market.
- DIP switch for multi-level current setting, with maximum output power of 40W.
- Up to 50,000 hours of service life with 5-year warranty (long-life capacitors).
- $\bullet\,$ 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.

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



Model	JD1106					Output Type	Constant Curre	nt	
	DC Voltage Range 220-240V				1	Dimming Interface	Phase-cut dim		
Input	AC Voltage Range	220-240V			Features	Output Feature	Isolation		
	Rated Voltage	220-240Vac	:			IP Rating	IP20		
	Input Frequency	50/60Hz				Insulation Rating	Class II (Suitable	for class I II III light fixtures)	
	Input Current	≤0.2A/230	Vac(at full load)			No Load Output Voltage	≤59Vdc		
	Input Power	Max.46W			Output	Output Voltage Range	9-40Vdc		
	Power Factor	PF>0.95C	/230Vac(at full load)			Output Current Range	700-1050mA		
	THD	THD<10%/	230Vac(at full load)			Output Power Range	6.3-40W		
	Efficiency	≥84%(at fu	ıll load)			Dimming Range	0.1~100%		
	Inrush Current	Cold start 3	3.5A(Test twidth=124	us under 50% lpeak@230Vac)		Ripple Current	<5%		
	Anti-Surge	L-N:1KV				Current Accuracy	±5%		
	Leakage Current	<0.5mA/23	0Vac			PWM Frequency	1000Hz		
	Overload	Hiccup Moc	le (Auto-Recovery af	ter Flimination)		Working Temperature	ta:-20°C~45°C		
Protection	Protection		e (Auto-Recovery after Elimination)		Environment	Working Humidity	20~90%RH(No	Condensation)	
	Open Circuit Protection	≤59Vdc		Storage Temperature/Hur		nidity -40~85°C/5~95	%RH		
	Stort Circuit					Case Temperature	tc:90°C		
	Protection	Hiccup Mod	le (Auto-Recovery af	r Elimination)		Life Time	>50000h@tc=	90°C	
	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					
		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		CCC	China	GB/T17743, GB17625.1					
	EMC Emission	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		2,3,4,5,6,8,11,EN615	4,5,6,8,11,EN61547					
	Power Consumption	· ·		<0.5W (PWM Off)					
ErP	Flicker/	IEEE1789		Meet IEEE Std1789-2015					
	Stroboscopic Effect	CIESVM		Pst≤1, SVM≤0.4					
	DF	Phase Factor		DF≥0.9					
Test Equipment		AC Source		PS-61005	Withstand Vo	ltage Tester	TH9302D	Other	
		DC Electronic Load		IT8512A+	Thermostatio	: Humidity Chamber	HT-H-802	Other	
		Spectrum Analyzer		KH3932	Ntelligent Ele	ectrical Parameter Meter	PF9800	LED Load	
		Surge Generator		SUG61005TB(7.5KV)-2216	Oscilloscope		TBS1102B		
		Stroboscope		LANSHU-201B	Digital Wattm	neter	PM2818C		

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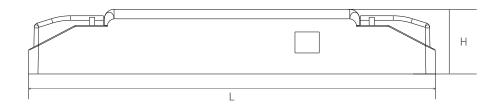
LED Current Settings

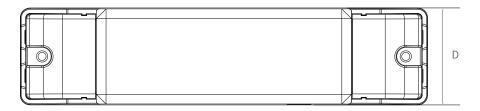
	Output				Switch Position		
Number	Current	Voltage	NO Load Outout Voltage	Power	1	2	3
	(mA)	(VDC)	(VDC)	(W)	 		
*1	700	9-40	59	28	/	/	/
2	750	9-40		30	ON	/	/
3	800	9-40		32	/	ON	/
4	850	9-40		34	ON	ON	/
5	900	9-40		36	/	/	ON
6	950	9-40		38	ON	/	ON
7	1000	9-40		40	/	ON	ON
8	1050	9-38		40	ON	ON	ON

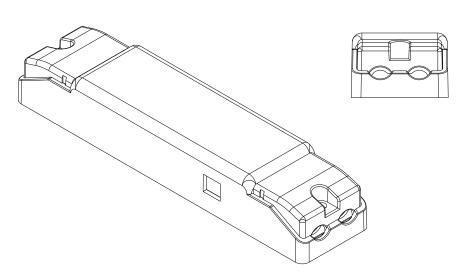
- ★ * Factory default.
 - Please disconnect the AC input before adjusting the output current via the DIP switch, If not, it may damage the lighting fixture.
 - 2. No Overload, The output power should be less than or equal to 40W.

2D Diagram











Wiring Diagram





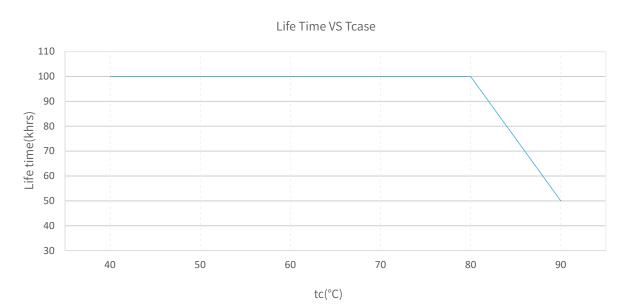
Installation Instructions

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

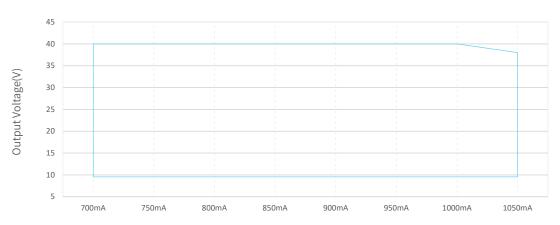
Product Characteristic Curves



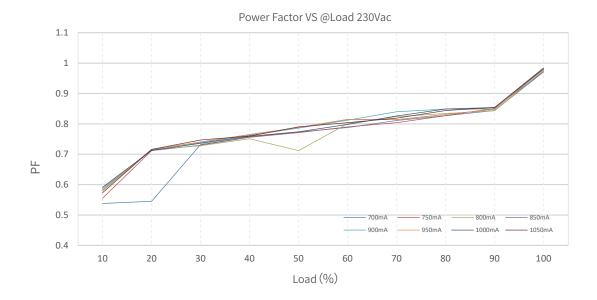
The life-time of the LED driver is shown in the figure above calculated (based on the 90% survival rate). The relation of tc to ta temperature depends also on the luminaire design.



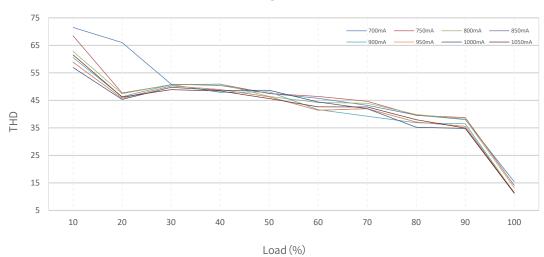




Output Current(mA)



THD VS @Load 230Vac







Packaging Image

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Packaging Size

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

Packaging instructions:

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



perform EMC testing to confirm the entire product set.

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
- > 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.