# JISIM 仟思盟<sup>®</sup>

#### Phase-Cut Dimmable LED Driver

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TH9302D

HT-H-802

TBS1102B

PM2818C

PF9800

Other

LED Load

#### Product introduction

JISIM JD1104 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%

IEEE1789

CIESVM

Phase Factor

DC Electronic Load

Spectrum Analyzer

Surge Generator

Stroboscope

AC Source

Flicker/ Stroboscopic Effect

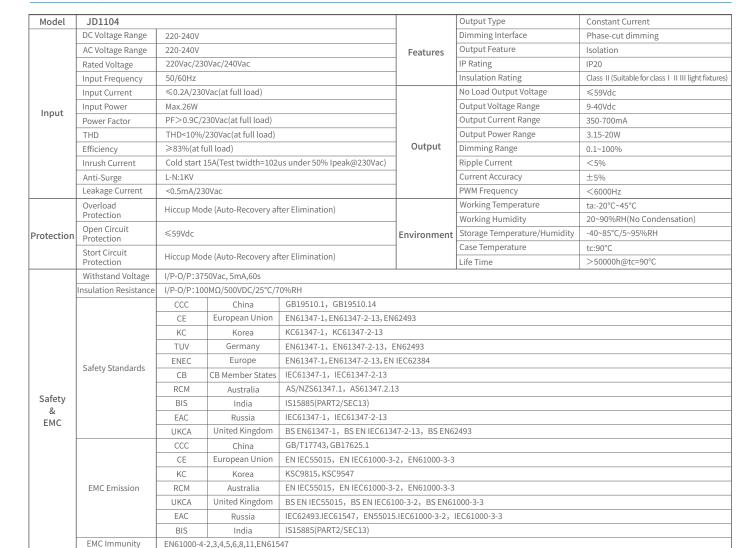
DF

**Test Equipment** 

ErP

- DIP switch for multi-level current setting, with maximum output power of 20W.
- 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.
- 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)



version:20250611-1.0 vww.jisim-tech.com

Withstand Voltage Tester

Oscilloscope

Digital Wattmeter

Thermostatic Humidity Chamber

Ntelligent Electrical Parameter Meter

Meet IEEE Std1789-2015

SUG61005TB(7.5KV)-2216

Pst≤1, SVM≤0.4

DF≥0.9

PS-61005

IT8512A+

KH3932

LANSHU-201B



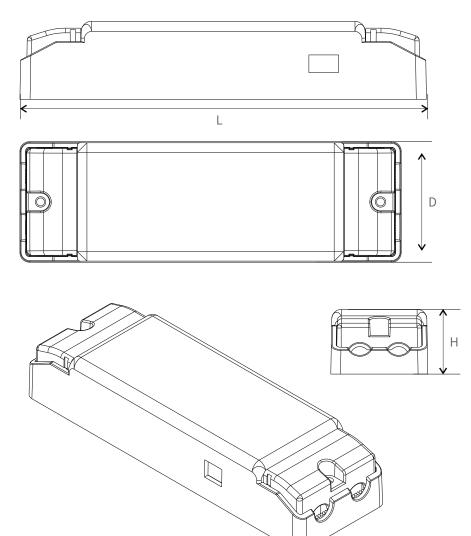
### **LED Current Settings**

	Output				Switch Position		
Number	Current (mA)	Voltage   (VDC)	NO Load Outout Voltage (VDC)	Power (W)	1	2	3
*1	350	9-40	59	14	/	/	/
2	400	9-40		16	ON	/	/
3	450	9-40		18	/	ON	/
4	500	9-40		20	ON	ON	/
5	550	9-36		19.8	/	/	ON
6	600	9-33		19.8	ON	/	ON
7	650	9-30		19.5	/	ON	ON
8	700	9-28	1 	19.6	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 20W.

#### 2D Diagram







## Wiring Diagram



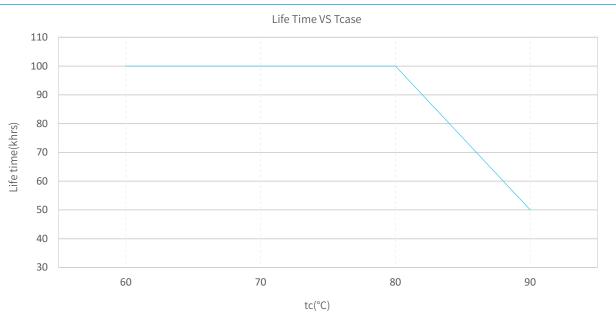
#### **Installation Instructions**

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
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

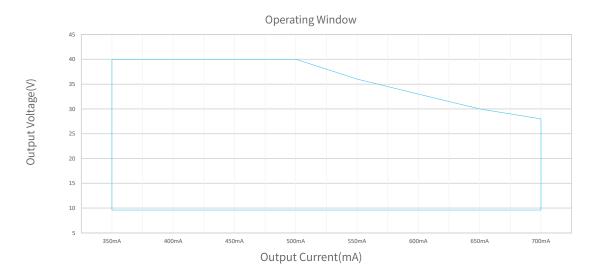
- 1.Rated torque: M2.6,0.35~0.40N.m
- 2.All connections must be as short as possible to ensure good EMI performance.
- 3.No secondary switches are allowed.
- $4. The \ driver \ output \ does \ not \ support \ hot \ swap$
- $5. Incorrect\ wiring\ can\ damage\ the\ LED.$
- 6.The power cable should be kept 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.





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:

 $Each \ large \ carton \ packaging \ contains \ 4 \ small \ carton \ packaging \ small \ carton \ packaging \ contains \ 48 \ inner \ packaging \ boxes.$ 



#### 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.

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- > 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.)

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▶ 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.
- $2. \ JISIM \ has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.$

