

RED SELV ErP RoHS UK @ **₹ ©** CB(€

Product introduction

JISIM JD5119C is a 12W constant current LED intelligent dimmable driver specifically designed for small aperture luminaires. It supports Bluetooth dimming functions(which allows for Dim or TW modes by changing the configuration file via the Casambi APP). The customized dimming curve provides a more comfortable viewing experience for the human eye. When not connected to an external signal, it can be used as a non-dimmable driver and supports a gradual start-up effect.lt is suitable for small aperture downlights, spotlights, linear lights. Paired with various intelligent control systems, it is widely used in smart homes, smart $hotels, intelligent\ commercial\ spaces, smart\ of fixes, smart\ buildings, and\ other\ facilities.$

Product Features

- Compact SELV independent dimming or tunable white driver DIP switch for multi-current setting, Max. output power 12W
 - Up to 50000 hours life time,5-Year Warranty(Long-lasting Capacitor)
- Global certification, SELV equivalent
- Small size and light weight, High power factor, High efficiency, Low THD
- Suitable for Class I/ II / III indoor light fixtures
- The housing is made from V0 flame retardant PC materials from CHIMEI
- Smooth dimming, flicker-free, dimming range: 0.1-100%

• Support bluetooth dimming or tunable white dimming

• 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	JD5219C					Output Type	Constant Curre	ent		
	DC Voltage Range	120-300V			1	Communication mode	Bluetooth			
Input	AC Voltage Range	100-240V			Features	Output Feature	Isolation			
	Rated Voltage	100Vac/230)Vac			IP Rating	IP20			
	Input Frequency	50/60Hz				Insulation Rating	Class II (Suitable	for class light fixture:		
	Input Current	≤0.2A/100Vac(at full load) ≤0.1A/230Vac(at full load)			Output	No Load Output Voltage	≤59Vdc			
	Input Power	Max.15W				Output Voltage Range	15-40Vdc			
	Power Factor	PF>0.95C/100Vac(at full load) PF>0.9C/230Vac(at full load				Output Current Range	150-500mA			
	THD	THD<10%/230Vac(at full load)				Output Power Range	2-12W			
	Efficiency	≥82%(at full load)				Dimming Range	0.1~100%			
	Inrush Current	Cold start 15A(Test twidth=102us under 50% Ipeak@230Vac)				Ripple Current	<5%			
	Anti-Surge	L-N:1KV				Current Accuracy	±5%			
	Leakage Current	<0.5mA/230Vac				PWM Frequency	4000Hz			
	Overload	Hiccup Mode (Auto-Recovery after Elimination)			1	Working Temperature	ta:-20°C~45°C			
	Protection	ніссир мос	ie (Auto-Recovery at	ter Elimination)		Working Humidity		Condensation)		
Protection	Open Circuit	≤59Vdc			Environment	Storage Temperature/Hun	-			
Totection	Trotection			Liiviioiiiileiit	Case Temperature	tc:75°C				
	Stort Circuit Protection	Hiccup Mode (Auto-Recovery after Elimination)			Life Time	>50000h@tc=	75°C			
	Withstand Voltage	I/P-O/P:375	50Vac, 5mA,60s							
	Insulation Resistance									
		CCC China GB19510.1, GB19510.14								
		CE	European Union							
	Safety Standards -	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)						
Safety		EAC	Russia	IEC61347-1, IEC61347-2-13						
&		UKCA	United Kingdom	BS EN61347-1, IEC61347-2-13, BS EN62493						
EMC	EMC Emission	CCC	China	GB/T17743, GB17625.1						
		CE	European Union	ENIEC55015, ENIEC61000-3-2, 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							
	EMC Immunity		2,3,4,5,6,8,11,EN615							
	Power Consumption		er Consumption	<0.5W (PWM Off)						
	Flicker/	IEEE1789		Meet IEEE Std1789-2015						
ErP	Stroboscopic Effect	CIESVM		Pst≤1, SVM≤0.4						
	DF	Phase Factor		DF≥0.9						
		AC Source		PS-61005	Withstand Vo	Itage Tester	TH9302D			
		DC Electronic Load		IT8512A+		: Humidity Chamber	HT-H-802	Other		
Test Equipment		Spectrum Analyzer		KH3932	Ntelligent Ele	ectrical Parameter Meter	PF9800	LED Load		
		Surge Generator		SUG61005TB(7.5KV)-2216	Oscilloscope		TBS1102B			
		Stroboscope		LANSHU-201B	Digital Wattm		PM2818C	1		

版本:20241206-1.0 www.jisim-tech.com



LED Current Settings

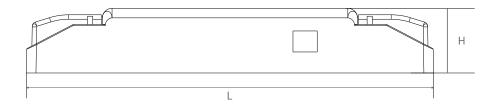
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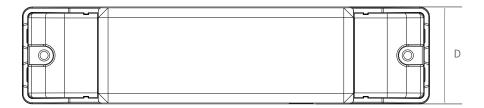
		Out	put	Switch Position			
Number	Current	Voltage	NO Load Outout Voltage	Power	1	2	3
	(mA)	(VDC)	(VDC)	(W)	 		
*1	150	15-40	 	6	/	/	/
2	200	15-40	 	8	ON	/	/
3	250	15-40	 	10	/	ON	/
4	300	15-40	i i 59	12	ON	ON	/
5	350	15-34	1 39	11.9	/	/	ON
6	400	15-30		12	ON	/	ON
7	450	15-27	! 	12	/	ON	ON
8	500	15-24	! 	12	ON	ON	ON

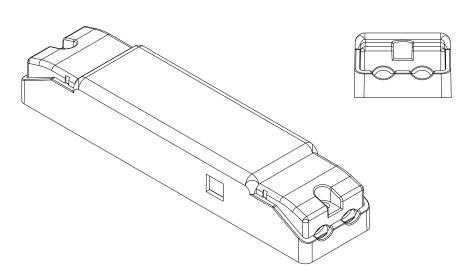
- ★ * Factory default.
 - Please disconnect the AC input before adjusting the output current via the DIP switch, If not, it may damage the lighting fixture.
 - 2. No Overload, The output power should be less than or equal to 12W.

2D Diagram











Wiring Diagram

Wiring Diagram for TW Mode Application



Wiring Diagram for DIM Mode Application



Operation Instructions for Modifying the Configuration File



◀ Scan the QR code to view the detailed steps

Installation Instructions

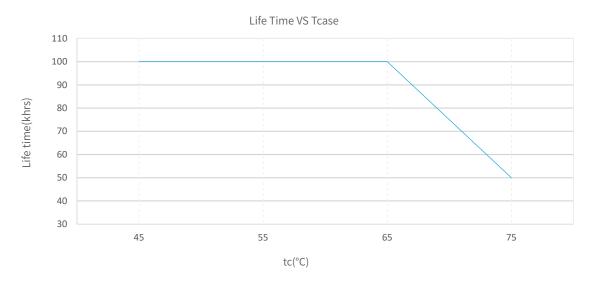
Interface	Marking	Description	Wire cross Section	Wire Stripping Length	
Input	N	Input terminal of AC neutral wire	0.751.5mm² (16-18AWG)	56mm	
i input	L	Input terminal of AC live wire	0.751.5mm² (16-18AWG)	56mm	
Output	LED-W	Negative electrode output of warm light	0.51.0mm² (16-20AWG)	56mm	
	LED-C	Negative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



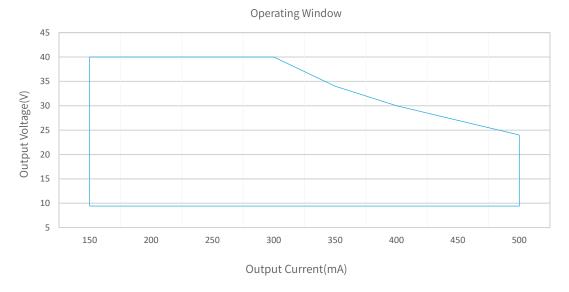
- $1. Rated\ torque: M2.6, 0.35 \hbox{$^{\sim}$} 0.40 N.m$
- 2. All connections must be as short as possible to ensure good EMI performance.
- $3. No \, secondary \, switches \, are \, allowed.$
- $4. The \ driver \ output \ does \ not \ support \ hot \ swap$
- 5.Incorrect wiring can damage the LED.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



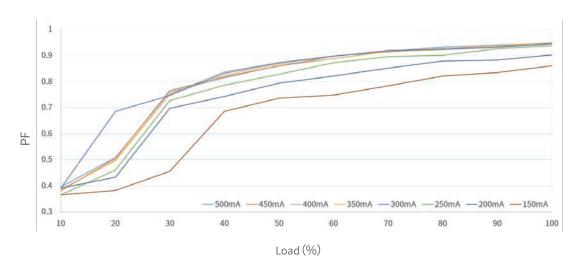
Product Characteristic Curves



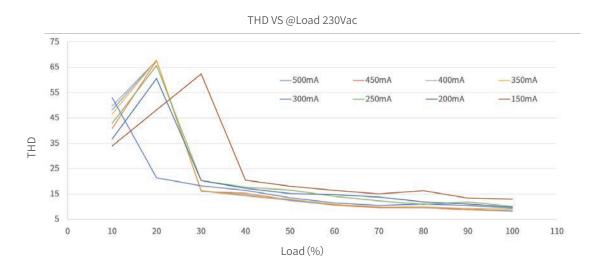
The life-time of the LED driver is shown in the figure above calculated (based on the tc:75°C survival rate). The relation of tc to ta temperature depends also on the luminaire design.



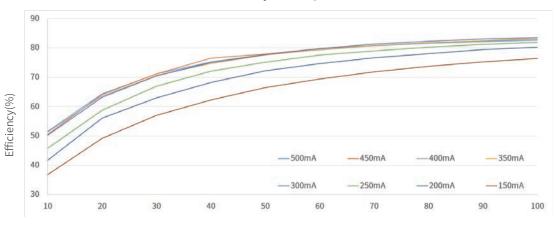
Power Factor VS @Load 230Vac







Efficiency VS Load@230Vac



Load(%)

Packaging Image





Packaging Size

Packaging Details Carton Size **Packing Units** Weight 1pcs 80±10g Inner Packaging Box 140x33x23mm 6.7kg 80pcs Small Carton Packaging 350 x 197 x 167mm Large Carton Packaging 320pcs 27.76kg 420 x 360 x 365mm

Packaging instructions:

Each large carton packaging contains 4 small carton packagings, Each small carton packaging contains 80 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.
- $\blacktriangleright \ \, {\sf Damage\ caused\ by\ human\ factors\ such\ as\ overvoltage,} overload, or\ improper\ operation.$
- > 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.

