

보 @ Œ & CB C € SELV ErP RoHS

Product introduction >>>>-----

JISIM JD1120 is a 9.6W constant current LED intelligent dimmable driver specifically designed for built in driver luminaires. it supports Triac dimming functions. 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 $non-dimmable\ driver\ .\ It\ is\ suitable\ for\ LED\ Track\ light, LED\ surface-mounted\ downlights, LED\ wall\ lamps. Paired$

with various intelligent control systems, it is widely used in smart homes, smart hotels, intelligent commercial spaces, smart offices, smart buildings, and other facilities.

- Compact SELV built in dimmable driver
- Support Phase-Cut dimming

Product Features

- Glue filling process, Global certification
- Suitable for Class I/II/III indoor light fixtures
- Smooth dimming, dimming range:1-100%
- DIP switch for multi-current setting, Max. output power 9.6W
- Up to 30000 hours life time,5-Year warranty(Long-lasting Capacitor)
- Small size and light weight, High power factor, High efficiency, Low THD
- The housing is made from V0 flame retardant PC materials from CHIMEI
- 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	JD1120					Output Type	Constant Curre	nt	
	DC Voltage Range	220-240V				Communication mode	TRIAC		
Input	AC Voltage Range	220-240V			Features	Output Feature	Isolation		
	Rated Voltage	220Vac/230	Vac/240Vac			IP Rating	IP20		
	Input Frequency	0/50/60Hz			1	Insulation Rating	Class II (Suitable	or class I II III light fixtures)	
	Input Current	≤0.05A/230Vac(at full load)		Output	No Load Output Voltage	≤50Vdc			
	Input Power	Max.13W			Output Voltage Range	25-40Vdc			
	Power Factor	PF>0.9C/230Vac(at full load)			Output Current Range	120-240mA			
	Efficiency	≥75%(at full load)			Output Power Range	3-9.6W			
	Inrush Current	Cold start 15A(Test twidth=102us under 50% Ipeak@230Vac)			Dimming Range	1-100%			
	Anti-Surge	L-N:1KV			Ripple Current	<5%			
	Leakage Current	<0.5mA/230Vac			Current Accuracy	±5%			
	Overload	Hiccup Mode (Auto-Recovery after Elimination)				Working Temperature	ta:-20°C~60°C		
	Protection					Working Humidity	20~95%RH(No	Condensation)	
Protection	Open Circuit Protection	≤50Vdc	≤50Vdc		Environment	Storage Temperature/Hur	nidity -20~85°C/10~9	5%RH	
	Stort Circuit					Case Temperature	tc:90°C		
	Protection	Hiccup Mod	le (Auto-Recovery af	ter Elimination)		Life Time	>30000h@tc=9	90°C	
	Withstand Voltage	I/P-O/P:375	50Vac, 5mA,60s						
	Insulation Resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH							
		CCC China GB19510.1, GB19510.14							
		CE	European Union	EN61347-1, EN61347-2-13, EN62493					
	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					
		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					
LIMIC	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							
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11,EN61547							
	Power Consumption	Stanby Power Consumption		<0.5W					
ErP	Flicker/			Meet IEEE Std1789-2015					
	Stroboscopic Effect	CIESVM		Pst≤1, SVM≤0.4					
	DF	Phase Factor		F≽0.9					
		AC Source DC Electronic Load		PS-61005	Withstand Vo	ltage Tester	TH9302D	- Other	
				IT8512A+	Thermostatio	Humidity Chamber	HT-H-802		
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	neter	PM2818C		
		Suoposcope		D 1142110 Z01D	Digital Wallii	iccci	I MIZOTOC		

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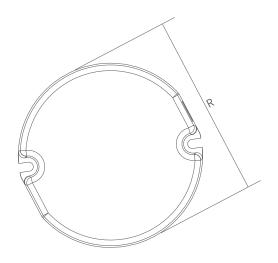
LED Current Settings

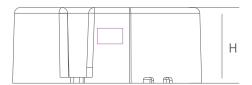
	1 · · · · · · · · · · · ·	Out	Switch Position			
Number	Current	Voltage	NO Load Outout Voltage	Power	1	2
	(mA)	(VDC)	(VDC)	(W)		
*1	120	25-40		4.8	/	/
2	150	25-40	50	6	ON	/
3	210	25-40	1 30	8.4	/	ON
4	240	25-40	 	9.6	ON	ON

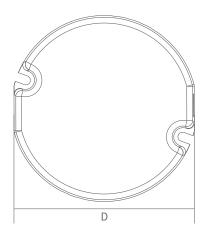
- ◆ * Factory default.
- 1. Please disconnect the AC input before adjusting the output current via the DIP switch, If not, it may damage the lighting fixture.
- 2. No Overload, The output power should be less than or equal to 9.6W.

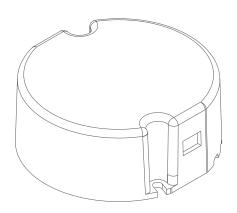
2D Diagram





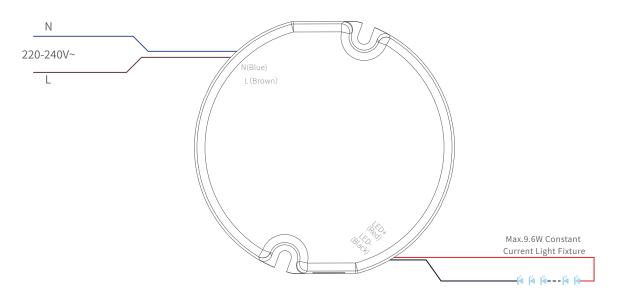








Wiring Diagram ••••



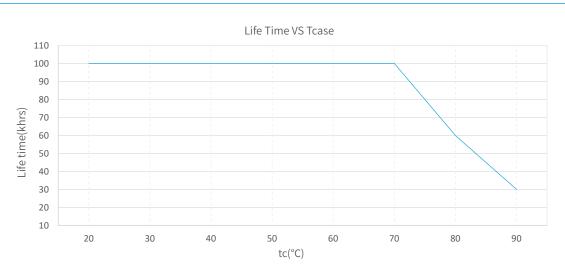
Installation Instructions

Interface	Marking	Description
l lanut	N	Input terminal of AC neutral wire
i Input	L	Input terminal of AC live wire
Output	LED+	Positive electrode output of the driver
output !	LED-	Negative electrode output of the driver

Connection instructions

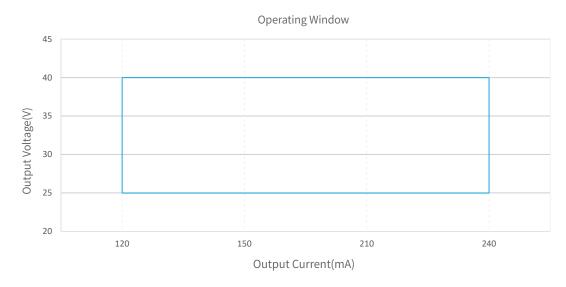
- 1. Check the color of the interface and cable carefully before wiring.
- 2.All connections must be as short as possible to ensure good EMI performance.
- 3. No secondary switches are allowed.
- $4. The \, driver \, output \, does \, not \, support \, hot \, swap$
- 5.Incorrect wiring can damage the LED.

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

į	Packaging Details	Carton Size	Packing Units	Weight
i	Inner Packaging Box	55 x 50 x 26.5mm	1pcs	57.4±10g
i	Small Carton Packaging	350 x 197 x 167mm	108pcs	6.5kg
i i	Large Carton Packaging	420 x 360 x 365mm	320pcs	26.9kg

Packaging instructions:

 $Each \ large\ carton\ packaging\ contains\ 4\ small\ carton\ packaging\ spaces, Each\ small\ carton\ packaging\ contains\ 108\ inner\ packaging\ boxes.$

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 be installed inside the luminaire for use, but the internal temperature of the luminaire must be strictly controlled to not exceed 60°C. Exceeding this temperature may adversely affect the service life of the luminaire.
- > 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.