JISIM 仟思盟

Bluetooth Dimmable LED Driver

LA CB CE SELV ErP RoHS

Product introduction

JISIM JD5134A is a 12W constant current LED intelligent dimmable driver specifically designed for small aperture $luminaires.\ lt\ supports\ Blue tooth\ dimming\ functions. The\ customized\ dimming\ curve\ provides\ a\ more\ comfortable$ viewing experience for the human eye. When not connected to an external signal, it can be used as a non-dimmable driver and supports a gradual start-up effect.It is suitable for small aperture downlights, spotlights, linear $lights. Paired\ with\ various\ intelligent\ control\ systems, it\ is\ widely\ used\ in\ smart\ homes,\ smart\ hotels, intelligent\ systems$ commercial spaces, smart offices, smart buildings, and other facilities.

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Product Features

• DIP switch for multi-current setting, Max. output power 11.9W

- Compact SELV independent Dimmable Driver
- Up to 50000 hours life time,5-Year Warranty(Long-lasting Capacitor)
- Support Bluetooth dimming
- Small size and light weight, High power factor, High Efficiency, Low THD
- Suitable for Class I/ II / III indoor light fixtures

• Global Certification, SELV equivalent

- The housing is made from V0 flame retardant PC materials from CHIMEI
- Smooth dimming, flicker-free, dimming range: 0.5-100% 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	JD5134A					Output Type	Constant Curr	ent		
Input	DC Voltage Range 100-300V				1	Communication mode	Bluetooth			
	AC Voltage Range	100-240V			Features	Output Feature	Isolation			
	Rated Voltage	120Vac/230	OVac			IP Rating	IP20			
	Input Frequency	50/60Hz			1	Insulation Rating	Class II (Suitable	for class light fixtures		
	Input Current	≤0.2A/100Vac(at full load) ≤0.08A/230Vac(at full load)			Output	No Load Output Voltage	Max.30V			
	Input Power	Max.15W				Output Voltage Range	2-17Vdc			
	Power Factor	PF>0.95C/100Vac(at full load) PF>0.9C/230Vac(at full load)				Output Current Range	350-700mA			
	THD	THD<10%/230Vac(at full load)				Output Power Range	0.7-12W			
	Efficiency	≥75%(at full load)				Dimming Range	0.5~100%			
	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	1000Hz			
	Overload	Hiccup Mode (Auto-Recovery after Elimination) ≤30Vdc			Environment	Working Temperature	ta:-20°C~45°C			
	Protection					Working Humidity	20~90%RH(No	Condensation)		
Protection	Open Circuit Protection					Storage Temperature/Hur	nidity -40~85°C/5~95	5%RH		
	Stort Circuit					Case Temperature	tc:75°C			
	Protection	Hiccup Mode (Auto-Recovery after Elimination)				Life Time	>50000h@t=7	75°C		
	Withstand Voltage	I/P-O/P:375	50Vac, 5mA,60s		·		<u>'</u>			
	Insulation Resistance	I/P-O/P:100	DMΩ/500VDC/25°C/7	0%RH						
		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						
		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						
EIVIC	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	BIS India IS15885(PART2/SEC13)							
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11,EN61547								
	Power Consumption	Stanby Power Consumption		<0.5W (PWM Off)						
ErP	Flicker/ Stroboscopic Effect	IEEE1789		Meet IEEE Std1789-2015						
		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			
		Spectrum Analyzer		KH3932	Ntelligent Ele	ectrical Parameter Meter	PF9800			
Test	t Equipment							LED Load		
Test	t Equipment	Surge Gene	rator	SUG61005TB(7.5KV)-2216	Oscilloscope		TBS1102B	LED Load		

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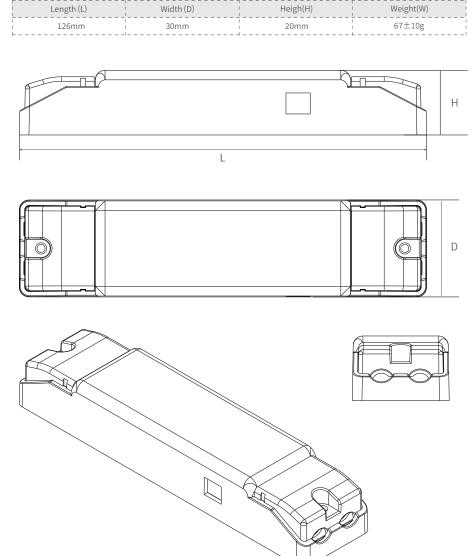
LED Current Settings

	Output				Switch Position		
Number	Current	Voltage	NO Load Outout Voltage	Power	1	2	3
	(mA)	(VDC)	(VDC)	(W)	! ! !		
* 1	350	2-17		5.9	/	/	/
2	400	2-17	 	6.8	ON	/	/
3	450	2-17	I I I	7.6	/	ON	/
4	500	2-17	30	8.5	ON	ON	/
5	550	2-17	30	9.4	/	/	ON
6	600	2-17		10.2	ON	/	ON
7	650	2-17	1 	11.1	/	ON	ON
8	700	2-17	! ! !	11.9	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 11.9W.

2D Diagram







Wiring Diagram





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
	L	Input terminal of AC live wire	0.751.5mm² (16-18AWG)	56mm
Output	LED-	Negative electrode output of the driver	0.51.0mm² (16-20AWG)	56mm
	LED+	Positive electrode output of the driver	0.51.0mm² (16-20AWG)	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) and the power cable should be kept at a certain distance from the driver and other connecting cables (5-10cm recommended) and the power cable should be kept at a certain distance from the driver and other connecting cables (5-10cm recommended) and the power cables (5-10cm recommended) are cables (5-10cm recommended). The power cables (5-10cm recommended) are cables (5-10cm recommended) and the power cables (5-10cm recommended) are cables (5-10cm recommended). The power cables (5-10cm recommended) are cables (5-10cm recommended) and the power cables (5-10cm recommended) are cables (5-10cm recommended). The power cables (5-10cm recommended) are cables (5-10cm recommended) are cables (5-10cm recommended). The power cables (5-10cm recommended) are cables (5-10cm recommended). The power cables (5-10cm recommended) are cables (5-10cm recommended). The power cables (5-10cm recommended) are cables (5-10cm recommended). The power cables (5-10cm recommended) are cables (5-10cm recommended). The cables (5-10cm recommended) are cables (5-10cm recommended). The cables (5-10cm rec

App operation Instructions

1.Account Registration

Download and install the Mi Home App via HarmonyOS/IOS/Android. Once installed, you can proceed with login/registration.

2.Adding Devices

After creating a family in "My" - "Family Management" - "Create Family" as a new user, manage the family location and naming of rooms within the family. Tap the "Mi Home" interface to "Add Devices". Select "Auto Discover" in the device addition list to automatically search for devices. The Devices can be automatically discovered. Follow the prompts to complete device addition (ensure that already added devices are powered on or reset with the light in breathing mode. For remote control, a Bluetooth gateway should be paired).

3. Function Settings

After successfully adding the device, tap the device to enter the specific light control interface, where you can freely control the device's on/off status, lighting level, color temperature, grouping, scene timing, and more features.

4. Scenes and Automation

Users can customize scenes and automation based on their needs, with features such as lighting scene libraries and circadian rhythm lighting.

5. Resetting the Device

Turn the power switch on and off consecutively 8 times, After the 9th power-on, the lamp will breathe bright to dark 5 times, indicating successful resetting. The lamp defaults to neutral light at 100%, signifying that the device has been successfully reset and entered the network configuration state.

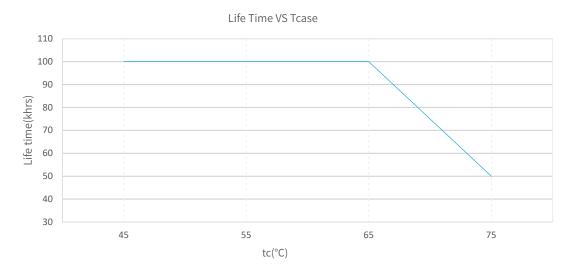
6.Voice Control

The device supports voice control within the Mi Home ecosystem.

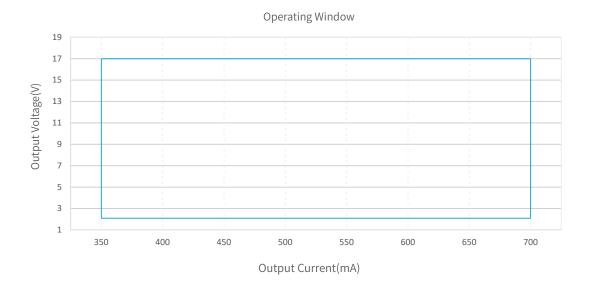


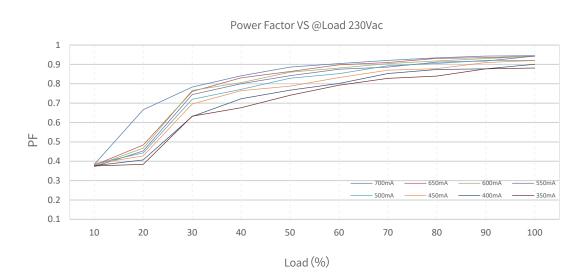
Product Characteristic Curves



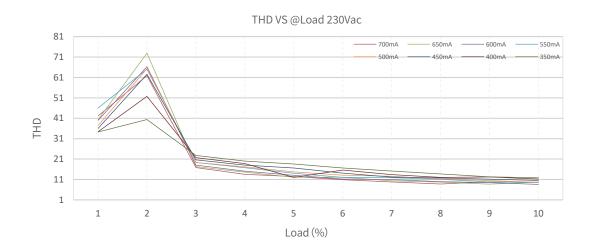


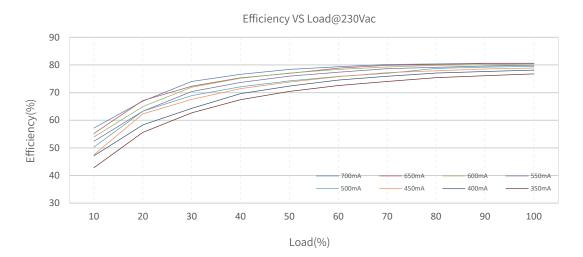
The life-time of the LED driver is shown in the figure above calculated (based on the tc:75°C survival rate). The relation of tc to ta temperature depends also on the luminaire design.















Packaging Size

 Packaging Details
 Carton Size
 Packing Units
 Weight

 Inner Packaging Box
 140x33x23mm
 1pcs
 78.2±10g

 Small Carton Packaging
 350 x 197 x 167mm
 80pcs
 6.56kg

 Large Carton Packaging
 420 x 360 x 365mm
 320pcs
 27.1kg

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 ofthe ight, and it mustbe used within 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.

