

## Product introduction



JISIM JD5134M is a 12W constant current LED intelligent dimmable driver specifically designed for small aperture luminaires. It supports Bluetooth 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 commercial spaces, smart offices, smart buildings, and other facilities.

## Product Features



- Compact SELV independent Dimmable Driver
- DIP switch for multi-current setting, Max. output power 11.9W
- Support Bluetooth dimming
- 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: 0.5-100%
- 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	JD5134M			Features	Output Type	Constant Current	
Input	DC Voltage Range	100-300V	Communication mode		Bluetooth		
	AC Voltage Range	100-240V	Output Feature		Isolation		
	Rated Voltage	120Vac/230Vac	IP Rating		IP20		
	Input Frequency	50/60Hz	Insulation Rating		Class II (Suitable for class I II III light fixtures)		
	Input Current	≤0.2A/100Vac(at full load) ≤0.08A/230Vac(at full load)	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%		
Protection	Inrush Current	Cold start 15A(Test twidth=102us under 50% Ipeak@230Vac)	Output	Environment	Ripple Current	<5%	
	Anti-Surge	L-N:1KV			Current Accuracy	±5%	
	Leakage Current	<0.5mA/230Vac			PWM Frequency	1000Hz	
Overload Protection	Overload Protection	Hiccup Mode (Auto-Recovery after Elimination)			Working Temperature	ta: -20°C~45°C	
	Open Circuit Protection	≤30Vdc			Working Humidity	20~90%RH (No Condensation)	
	Short Circuit Protection	Hiccup Mode (Auto-Recovery after Elimination)			Storage Temperature/Humidity	-40~85°C/5~95%RH	
Safety & EMC	Withstand Voltage	I/P-O/P:3750Vac, 5mA, 60s	Safety Standards		Case Temperature	tc: 75°C	
	Insulation Resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH			Life Time	>50000h@t=75°C	
	CCC	China					
	CE	European Union					
	KC	Korea					
	TUV	Germany					
	ENEC	Europe					
	CB	CB Member States					
	RCM	Australia					
EMC Emission	BIS	India					
	EAC	Russia					
	UKCA	United Kingdom					
	CCC	China	EMC Emission	EMC Emission			
	CE	European Union					
	KC	Korea					
	RCM	Australia					
	UKCA	United Kingdom					
	EAC	Russia					
	BIS	India					
EMC Immunity			EN61000-4-2,3,4,5,6,8,11,EN61547				
ErP	Power Consumption	Standby Power Consumption	<0.5W (PWM Off)				
	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 Voltage Tester	TH9302D	Other		
	DC Electronic Load	IT8512A+	Thermostatic Humidity Chamber	HT-H-802			
	Spectrum Analyzer	KH3932	Intelligent Electrical Parameter Meter	PF9800	LED Load		
	Surge Generator	SUG61005TB(7.5KV)-2216	Oscilloscope	TBS1102B			
	Stroboscope	LANSHU-201B	Digital Wattmeter	PM2818C			

## Bluetooth Dimmable LED Driver

## LED Current Settings

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

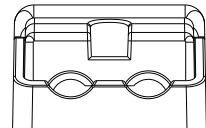
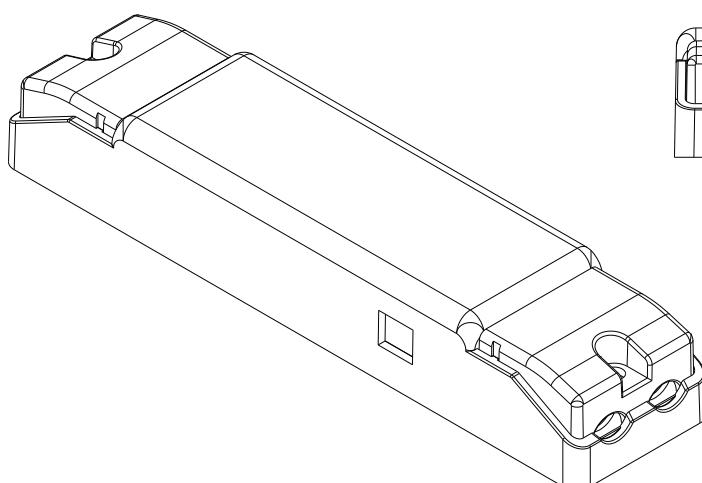
◀ \* Factory default.

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 11.9W.

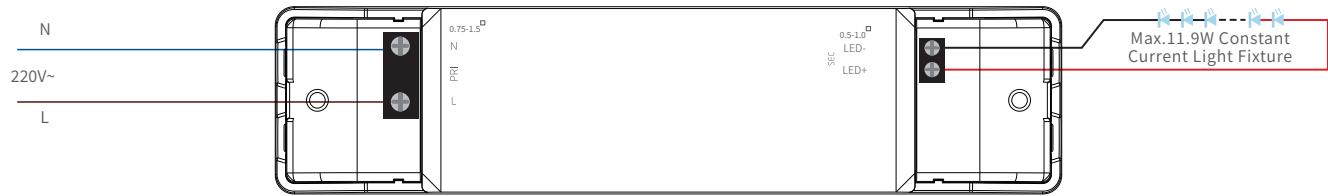
## 2D Diagram

Length (L)	Width (D)	Heigh(H)	Weight(W)
126mm	30mm	20mm	67±10g



## Bluetooth Dimmable LED Driver

## Wiring Diagram



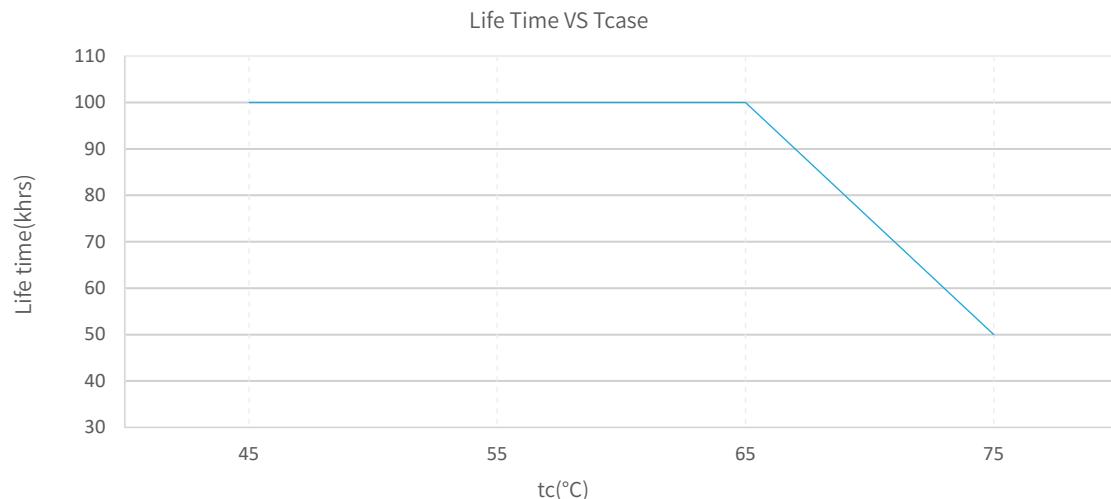
## Installation Instructions

Interface	Marking	Description	wire cross Section	wire Stripping Length
Input	N	Input terminal of AC neutral wire	0.75...1.5mm <sup>2</sup> (16-18AWG)	5...6mm
	L	Input terminal of AC live wire	0.75...1.5mm <sup>2</sup> (16-18AWG)	5...6mm
Output	LED-	Negative electrode output of the driver	0.5...1.0mm <sup>2</sup> (16-20AWG)	5...6mm
	LED+	Positive electrode output of the driver	0.5...1.0mm <sup>2</sup> (16-20AWG)	5...6mm

## 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)

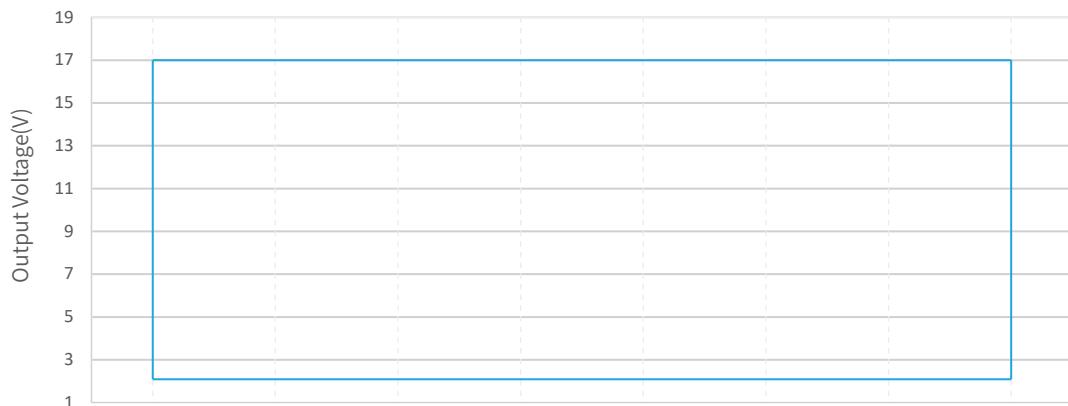
## Product Characteristic Curves



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

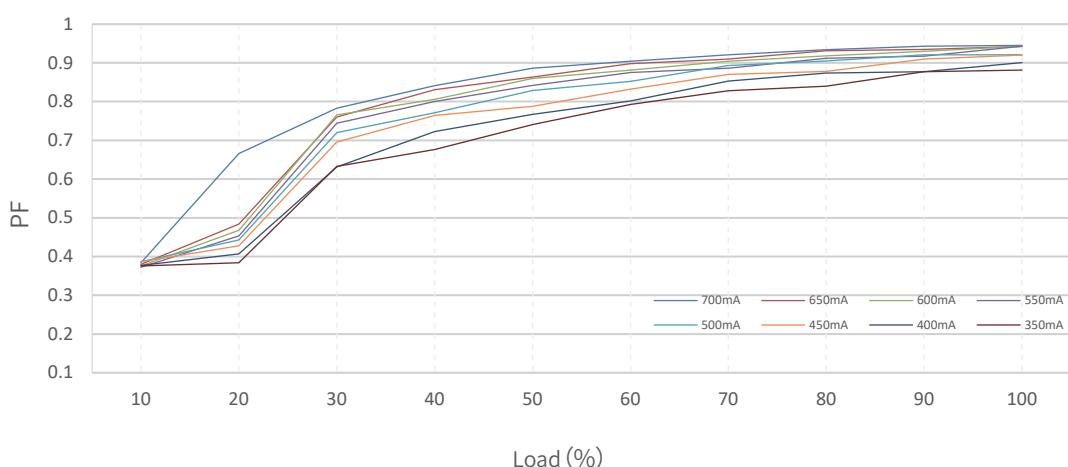
## Bluetooth Dimmable LED Driver

Operating Window



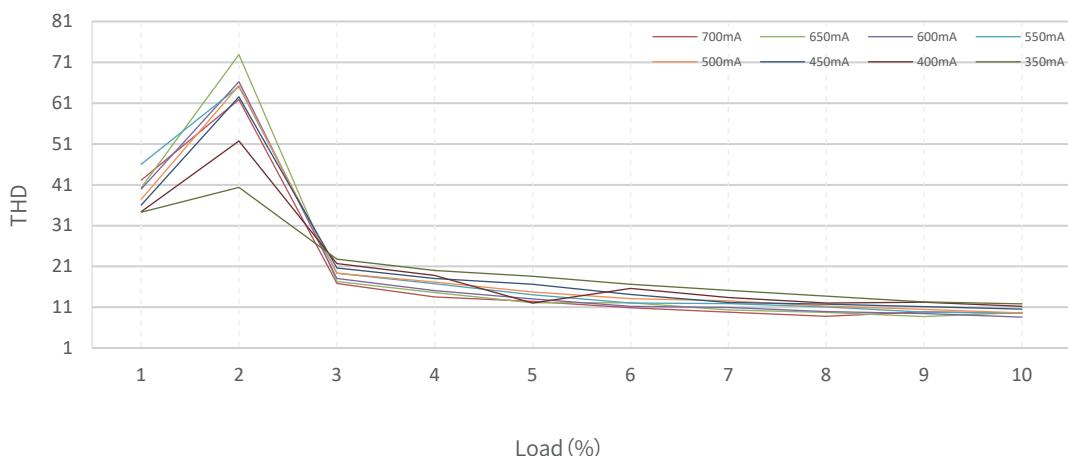
Output Current(mA)

Power Factor VS @Load 230Vac



Load (%)

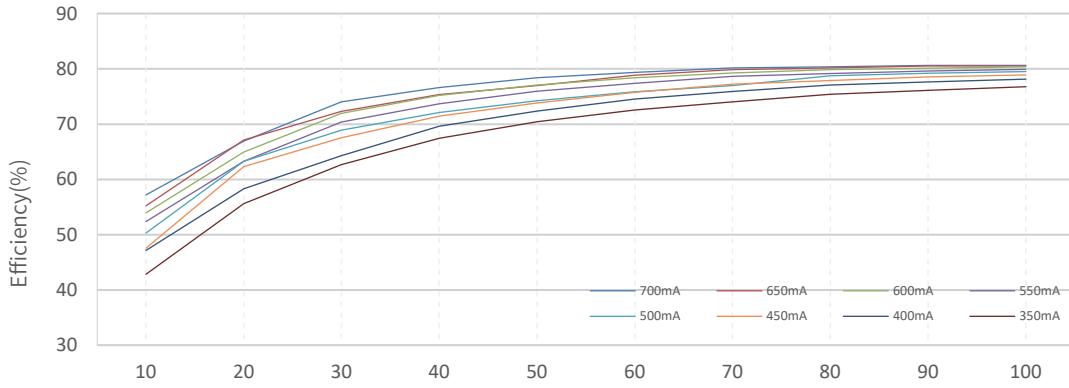
THD VS @Load 230Vac



Load (%)

## Bluetooth Dimmable LED Driver

Efficiency VS Load@230Vac



Load(%)

## Packaging Image



## 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.

## Bluetooth Dimmable LED Driver

## Cautions

- This product is used as a component in 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 carefully before installation.
- This product can only be used outside the light body, Cannot be used inside of the light, and it must be used within the specified working environment.
- This product is not waterproof and should be avoided from direct sunlight and rain. If it 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.