

## Product introduction

JISIM JD5218M is a 30W constant voltage LED intelligent tunable white dimmable driver specifically designed for built in driver luminaires. it supports bluetooth tunable white 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 modern decorative luminaires such as wall sconces, table lamps, pendant lights, and more.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 built in dimmable driver
- Output constant voltage 24V design, Max.output power 30W
- Support bluetooth tunable white dimming
- Up to 30000 hours life time,5-Year warranty(Long-lasting Capacitor)
- Ipx5 external antenna, Glue filling process, Global certification
- 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%
- Standby power consumption <0.5 W,meets ErP energy efficiency certification

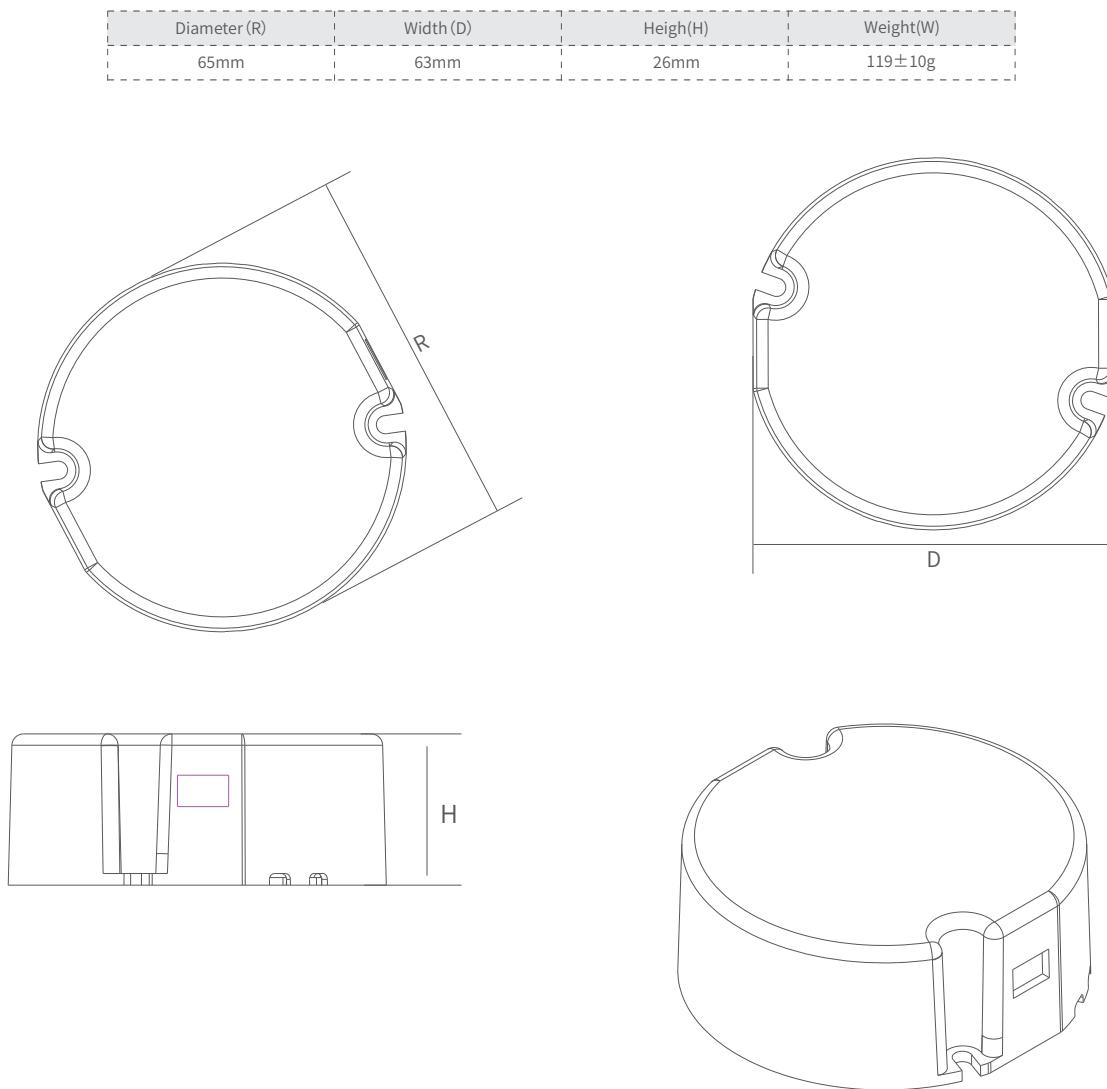

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## Technical Specifications (All parameters not specially mentioned are measured at 230VAC input,full load and 25°C of ambient temperature)

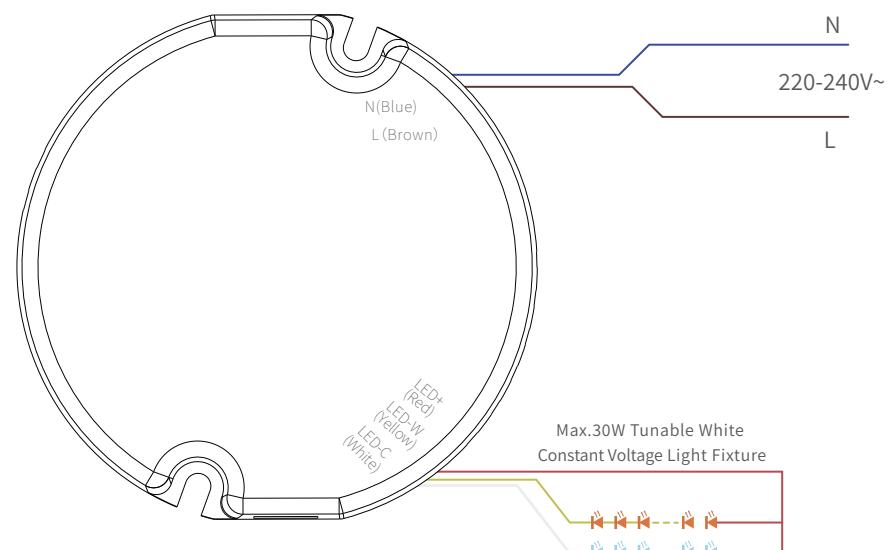
Model	JD5218M			Features	Output Type	Constant Voltage		
Input	DC Voltage Range	220-240V	Communication mode		Bluetooth			
	AC Voltage Range	220-240V	Output Feature		Isolation			
	Rated Voltage	220Vac/230Vac/240Vac	IP Rating		IP20			
	Input Frequency	0/50/60Hz	Insulation Rating		Class II (Suitable for class I II III light fixtures)			
	Input Current	≤0.19A/230Vac(at full load)	No Load Output Voltage		≤25Vdc			
	Input Power	Max.35W	Rated voltage		24Vdc			
	Power Factor	PF>0.9C/230Vac(at full load)	Output Current Range		Max.1.32A			
	THD	THD<10%/230Vac(at full load)	Output Power Range		30W			
	Efficiency	≥85%(at full load)	Dimming Range		0.1~100%			
Protection	Inrush Current	Cold start 15A(Test twidth=102us under 50% Ipeak@230Vac)	Output		Ripple	Max.240mV		
	Anti-Surge	L-N:2KV			Voltage Accuracy	±5%		
	Leakage Current	<0.5mA/230Vac			PWM Frequency	16000Hz		
Protection	Overload Protection	Hiccup Mode (Auto-Recovery after Elimination)	Environment		Working Temperature	ta:-20°C~60°C		
	Open Circuit Protection	≤25Vdc			Working Humidity	20~95%RH(No Condensation)		
	Short Circuit Protection	Hiccup Mode (Auto-Recovery after Elimination)			Storage Temperature/Humidity	-20~85°C/10~95%RH		
Safety & EMC	Withstand Voltage	I/P-O/P:3750Vac, 5mA,60s			Case Temperature	tc:90°C		
	Insulation Resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH			Life Time	>30000h@tc=90°C		
	Safety Standards	CCC	China		Working Temperature	ta:-20°C~60°C		
		CE	European Union		Working Humidity	20~95%RH(No Condensation)		
		KC	Korea		Storage Temperature/Humidity	-20~85°C/10~95%RH		
		TUV	Germany		Case Temperature	tc:90°C		
		ENEC	Europe		Life Time	>30000h@tc=90°C		
		CB	CB Member States		Working Temperature	ta:-20°C~60°C		
		RCM	Australia		Working Humidity	20~95%RH(No Condensation)		
		BIS	India		Storage Temperature/Humidity	-20~85°C/10~95%RH		
	EMC Emission	EAC	Russia		Case Temperature	tc:90°C		
		UKCA	United Kingdom		Life Time	>30000h@tc=90°C		
		CCC	China		Working Temperature	ta:-20°C~60°C		
		CE	European Union		Working Humidity	20~95%RH(No Condensation)		
		KC	Korea		Storage Temperature/Humidity	-20~85°C/10~95%RH		
		RCM	Australia		Case Temperature	tc:90°C		
		UKCA	United Kingdom		Life Time	>30000h@tc=90°C		
		EAC	Russia		Working Temperature	ta:-20°C~60°C		
		BIS	India		Working Humidity	20~95%RH(No Condensation)		
		EMC Immunity			Storage Temperature/Humidity	-20~85°C/10~95%RH		
ErP	Power Consumption	Standby Power Consumption	<0.5W (PWM Off)			Other		
	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	LED Load			
	DC Electronic Load	IT8512A+	Thermostatic Humidity Chamber	HT-H-802				
	Spectrum Analyzer	KH3932	Intelligent Electrical Parameter Meter	PF9800				
	Surge Generator	SUG61005TB(7.5KV)-2216	Oscilloscope	TBS1102B				
	Stroboscope	LANSHU-201B	Digital Wattmeter	PM2818C				

## Bluetooth Tunable White Dimmable LED Driver

## 2D Diagram



## Wiring Diagram



## Bluetooth Tunable White Dimmable LED Driver

## Installation Instructions

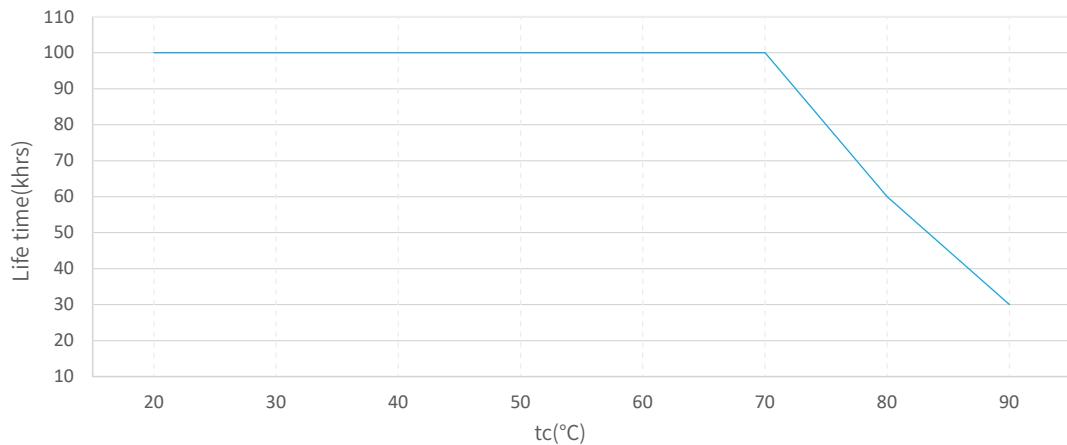
Interface	Marking	Description
Input	N	Input terminal of AC neutral wire
	L	Input terminal of AC live wire
Output	LED+	Positive electrode output of the driver
	LED-W	Negative electrode output of warm light
	LED-C	Negative electrode output of cold light
Antennae	ANT	Do not attach the end of the antenna to the metal material

## 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

Life Time VS Tcase



The life-time of the LED driver is shown in the figure above calculated (based on the 90% survival rate). The relation of  $t_c$  to  $t_a$  temperature depends also on the luminaire design.

## Packaging Image



## Bluetooth Tunable White Dimmable LED Driver

## Packaging Size

Packaging Details	Carton Size	Packing Units	Weight
Inner Packaging Box	69 x 65 x 30.5mm	1pcs	133±10g
Small Carton Packaging	350 x 197 x 167mm	48pcs	6.72kg
Large Carton Packaging	420 x 360 x 365mm	192pcs	27.8kg

## Packaging instructions:

Each large carton packaging contains 4 small carton packagings, Each small carton packaging contains 48 inner packaging boxes.

## 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 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. 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 any changes will prevail.