JD3108

JISIM 仟思盟®

DALI+Push Dim DT6 Dimmable LED Driver

Product introduction

JISIM JD3108 is a 12.6W constant current LED intelligent dimmable driver specifically designed for small aperture luminaires. It supports DALI-2 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 beused as a non-dimmable driver and supports a gradual start-up effect.It is suitable for LED downlights,LED spotlights and LED linear lights.Paired with various inteligent 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
- Support DALI-2 dimming
- Glue filling process, Global Certification
- Suitable for Class I/ II /III indoor light fixtures
- Smooth dimming,flicker-free,dimming range: 1-100%
- DIP switch for multi-current setting, Max. output power 12.6 W
- Up to 50000 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 <1W

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

Model	JD3108					
Input	DC Voltage Range	220-240V		Features	Output Type	Constant Current
	AC Voltage Range	220-240V			Dimming Interface	DT6(IEC62386-101-102-207)+PushDim
	Rated Voltage	220Vac/230Vac/240Vac			Output Feature	Isolation
	Input Frequency	0/50/60Hz			IP Rating	IP20
	Input Current	≤0.073A/230Vac(at full load)			Insulation Rating	Class II (Suitable for class I II III light fixtures)
	Input Power	Max.12.6W		Output	No Load Output Voltage	Max.35V
	Power Factor	PF＞0.9C/230Vac(at full load)			Output Voltage Range	9-18Vdc
	THD	THD<15%/230Vac(at full load)			Output Current Range	350-700mA
	Efficiency	≥80%(at full load)			Output Power Range	12.6W
	Inrush Current	Cold start 20A(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%
Protection	Overload Protection	Hiccup Mode (Auto-Recovery after Elimination)			PWM Frequency	＜20KHz
	Open Circuit Protection	≤35Vdc		Environment	Working Temperature	ta:-20°C~45°C
	Stort Circuit Protection	Hiccup Mode (Auto-Recovery after Elimination)			Working Humidity	20~90%RH(No Condensation)
					Storage Temperature/Humidity	-40~80°C/5~95%RH
					Case Temperature	tc:75°C
					Life Time	＞50000h@tc=75°C

Safety & EMC	Withstand Voltage	I/P-O/P:3750Vac, 5mA,60s		
	Insulation Resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH		
	Safety Standards	CCC	China	GB19510.1，GB19510.14
		CE	European Union	EN61347-1, EN61347-2-13, EN62493
		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)
		EAC	Russia	IEC61347-1，IEC61347-2-13
		UKCA	United Kingdom	BS EN61347-1，BS EN IEC61347-2-13，BS EN62493
	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	India	IS15885(PART2/SEC13)
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11,EN61547		
ErP	Power Consumption	Stanby Power Consumption	＜1W (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	Ntelligent Electrical Parameter Meter	PF9800	LED Load	
Surge Generator	SUG61005TB(7.5KV)-2216	Oscilloscope	TBS1102B		
Stroboscope	LANSHU-201B	Digital Wattmeter	PM2818C		

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LED Current Settings

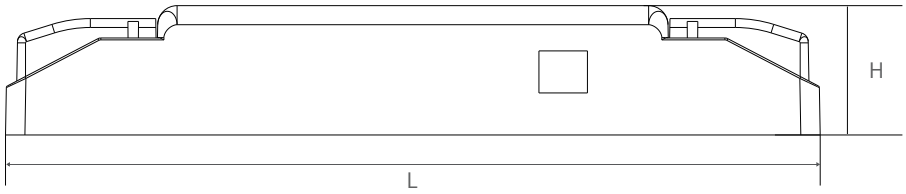
Number	Output				Switch Position		
	Current (mA)	Voltage (VDC)	NO Load Outout Voltage (VDC)	Power (W)	1	2	3
*1	350	9-18	35	6.3	/	/	/
2	400	9-18		7.2	ON	/	/
3	450	9-18		8.1	/	ON	/
4	500	9-18		9	ON	ON	/
5	550	9-18		9.9	/	/	ON
6	600	9-18		10.8	ON	/	ON
7	650	9-18		11.7	/	ON	ON
8	700	9-18		12.6	ON	ON	ON

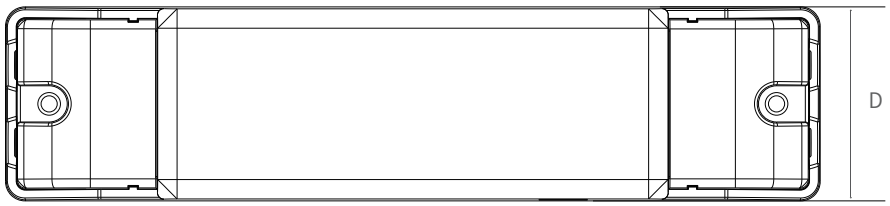
* Factory default.

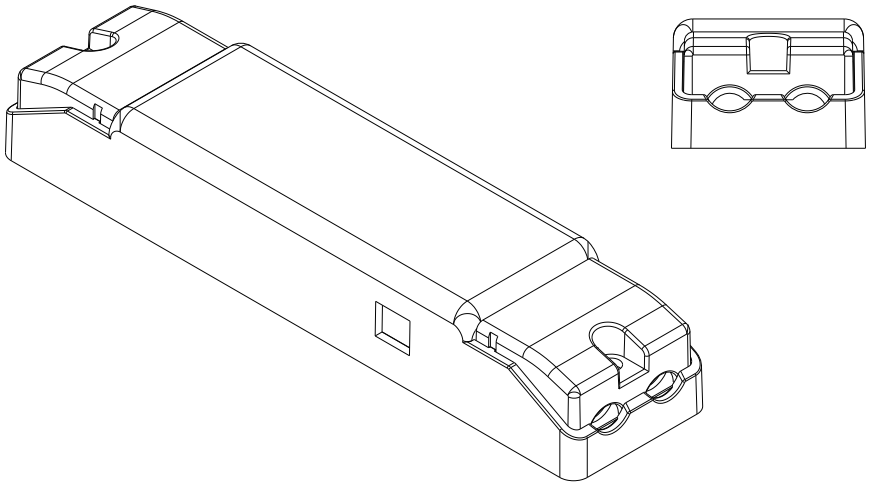
1. Please disconnect the AC input before adjusting the output current via the DIP switch, If not,it may damage the lighting fixture.
2. No Overload, The output power should be less than or equal to 12.6W.

2D Diagram

Length (L)	Width (D)	Heigh(H)	Weight(W)
126mm	30mm	20mm	67.9±10g







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Wiring Diagram

DALI Application Wiring Diagram

Remark

- The two DALI control lines polarity-reversible.
- Default setting brightness is 100%.
- The default is logarithmic dimming curve.
- Max.64 DALI drivers per DALI control line.
- The current consumption of the DALI interface is less than 2mA.
- The maximum distance length of the DALI control line is 200m at 2x1.0mm.
- DALI bus can be wired together with any mains voltage cables,but separate wiringis recommended.
- Max. 64 DALI drivers per DALI control line.DALI protocol includes Max.16 scene groups and 16 sences.
- The configuration parameters ofthe driver can be set through the DALI configuration tool or DALI application controller during installation, such as setting device address, group addresspower-on level, bus-failure level, scene level, fade time, dimming curve, etc.

PushDim Application Wiring Diagram

Push function

Long press: Adjust brightness, short press: Turn on/off.

Installation Instructions

Interface	Marking	Description	wire cross Section	wire Stripping Length
Input	N	Input terminal of AC neutral wire	0.75...1.5mm² (16-18AWG)	5...6mm
	L	Input terminal of AC live wire	0.75...1.5mm² (16-18AWG)	5...6mm
Output	LED+	Positive electrode output of the driver	0.5...1.0mm² (16-20AWG)	5...6mm
	LED-	Negative electrode output of the driver	0.5...1.0mm² (16-20AWG)	5...6mm
Signal	DA	Positive electrode input 0-10V/PWM/RX dimming	0.4...1.0mm² (16-20AWG)	5...6mm
	DA	Negative electrode input 0-10V/PWM/RX dimming	0.4...1.0mm² (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.

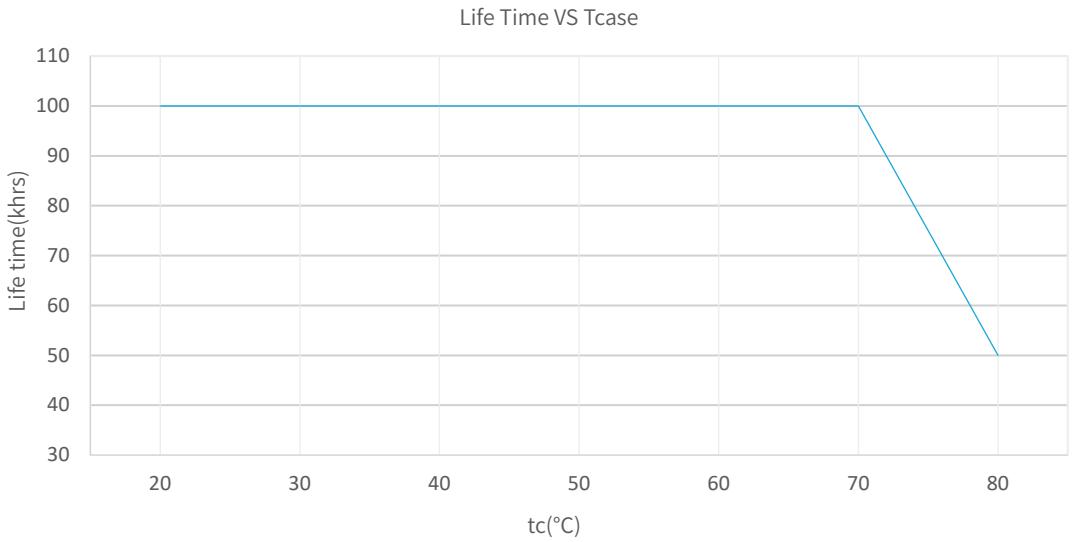
3.No secondary switches are allowed.

4.The driver output does not support hot swap

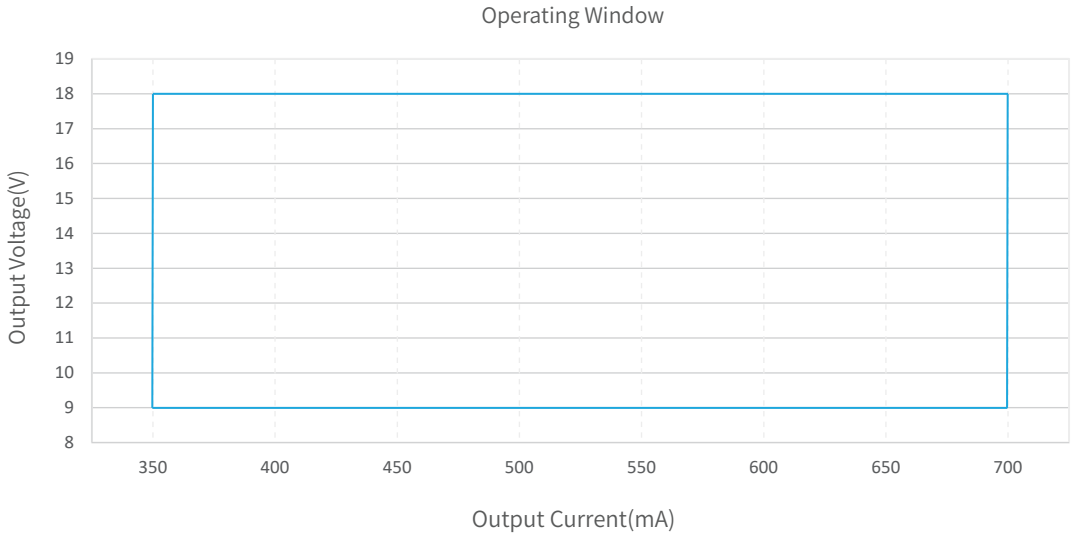
5.Incorrect wiring can damage the LED.

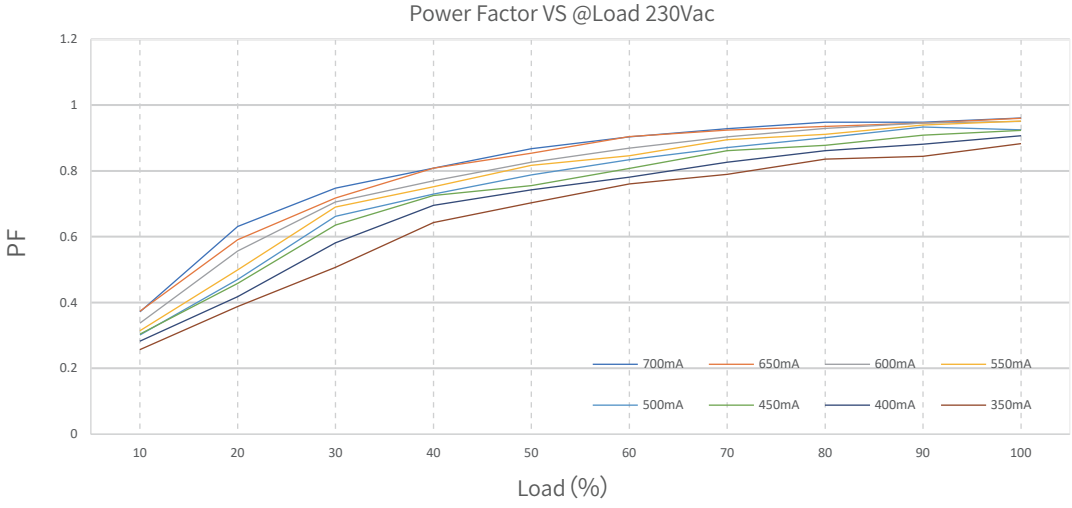
6.The power cable should be kept at a certain distance from the driver and other connecting cables (5-10cm recommended)

Product Characteristic Curves



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





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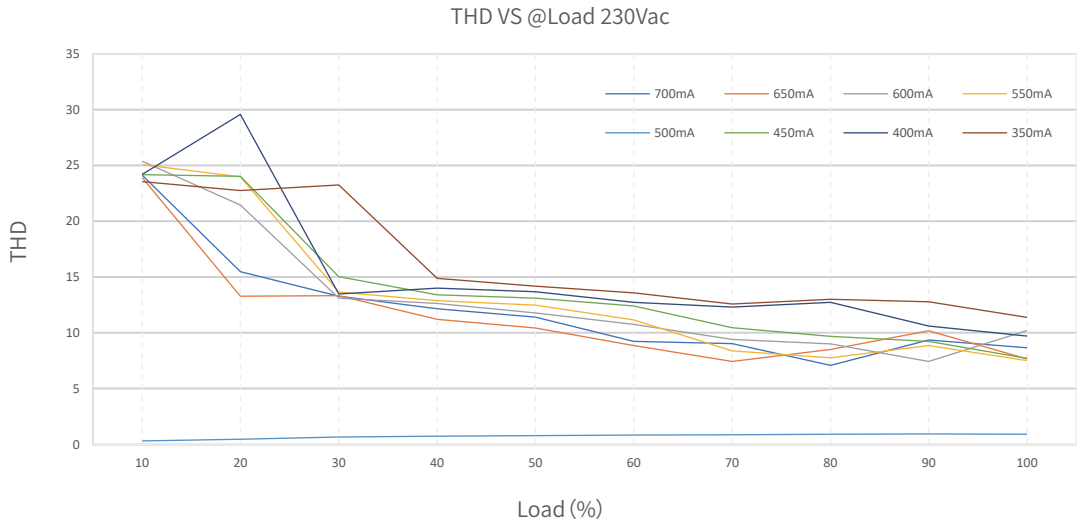

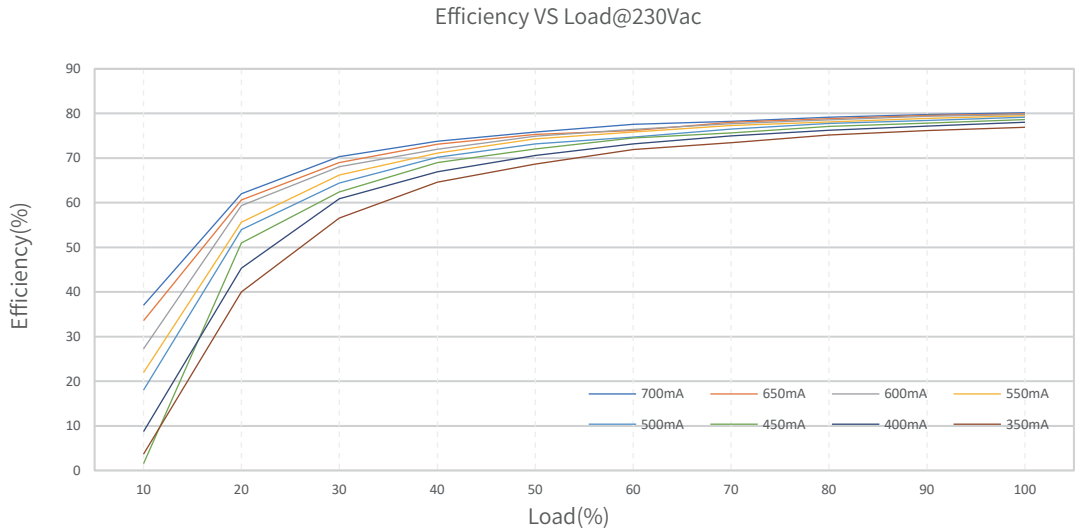

Packaging Image

Inner Packaging Box

Large Carton Packaging

Small Carton Packaging

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Packaging Size

Packaging Details	Carton Size	Packing Units	Weight
Inner Packaging Box	140x33x23mm	1pcs	79.4±10g
Small Carton Packaging	350 x 197 x 167mm	80pcs	6.65kg
Large Carton Packaging	420 x 360 x 365mm	320pcs	27.5kg

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 ofthis warranty,and release in written form shall prevail.