

## Product introduction >>>>

JISIM JD9230 is a constant voltage LED intelligent tunable white dimming driver. It is a product specially designed for indoor constant voltage lamps. It supports 2.4G RF tunable white dimming function. The customized dimming curve section makes the human eye more comfortable; when no external signal is connected, it can be used as a non-dimming driver; It is suitable for LED strips, linear lamps, lamp films, magnetic lamps, decorative lamps; It is widely used in smart homes, smart hotels, smart commercial lighting, smart offices, smart buildings, large public buildings, etc. Places.

## Product Features >>>>

- Compact SELV independent dimmable driver
- Support 2.4G RF tunable white dimming
- Globally certified, SELV equivalent
- Suitable for class I II III luminaires
- Output power up to 120W
- Up to 50000 hours life time, 5-Year Warranty (Long-lasting Capacitor)
- Smooth dimming, no stroboscopic, no noise, dimming range: 0.1~100%
- 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



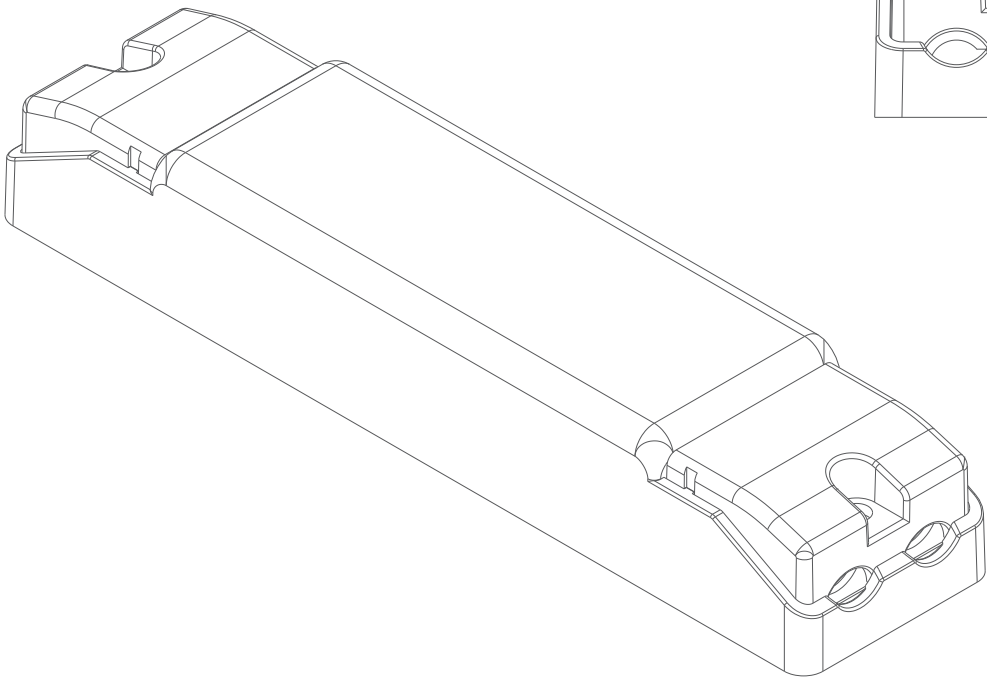
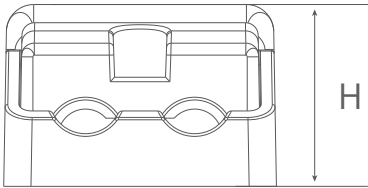
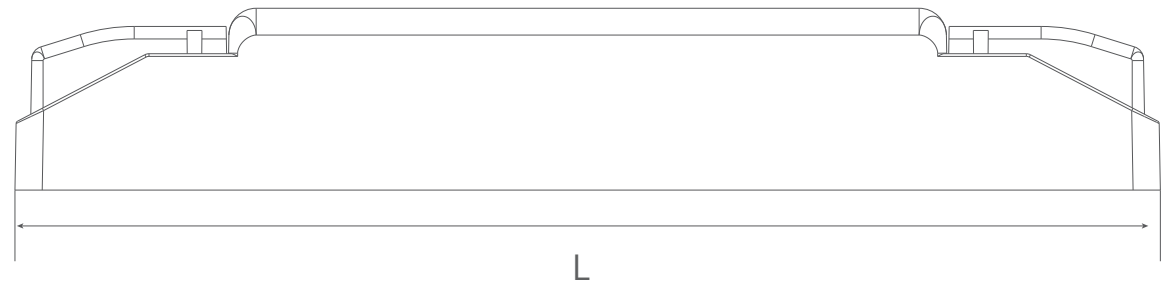
## Technical Specifications (All parameters not specially mentioned are measured at 230VAC input, full load and 25°C of ambient temperature) >>>>

|                          |                              |                                               |                                               |                                                       |                                                       |                           |
|--------------------------|------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|---------------------------|
| Input                    | JD9230                       |                                               | Features                                      | Output Type                                           | Constant Voltage                                      |                           |
|                          | DC Voltage Range             | 220-240V                                      |                                               | Communication mode                                    | 2.4G RF                                               |                           |
|                          | 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                | ≤0.75A/230Vac(at full load)                   | Output                                        | No Load Output Voltage                                | ≤49Vdc                                                |                           |
|                          | Input Power                  | Max.135W                                      |                                               | Rated Voltage                                         | 48Vdc                                                 |                           |
|                          | Power Factor                 | PF>0.95C/230Vac(at full load)                 |                                               | Output Current Range                                  | Max.2.5A                                              |                           |
|                          | THD                          | THD<8%/230Vac(at full load)                   |                                               | Output Power Range                                    | 120W                                                  |                           |
|                          | Efficiency                   | ≥90%(at full load)                            |                                               | Dimming Range                                         | 0.1~100%                                              |                           |
|                          | Inrush Current               | <75A&230uS@230Vac                             |                                               | Ripple                                                | Max.480mV                                             |                           |
|                          | Anti-Surge                   | L-N:1KV                                       |                                               | Voltage Accuracy                                      | ±5%                                                   |                           |
|                          | Leakage Current              | <0.5mA/230Vac                                 | PWM Frequency                                 | 16000Hz                                               |                                                       |                           |
|                          | Protection                   | Overload Protection                           | Hiccup Mode (Auto-Recovery after Elimination) |                                                       | Environment                                           | Working Temperature       |
| Open Circuit Protection  |                              | ≤49Vdc                                        |                                               | Working Humidity                                      |                                                       | 20~95%RH(No Condensation) |
| Stort Circuit Protection |                              | Hiccup Mode (Auto-Recovery after Elimination) |                                               | Storage Temperature/Humidity                          |                                                       | -20~85°C/10~95%RH         |
|                          |                              |                                               |                                               | Case Temperature                                      |                                                       | tc:90°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                      | 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                                               |                           |

2.4G RF Tunable White Dimmable LED Driver

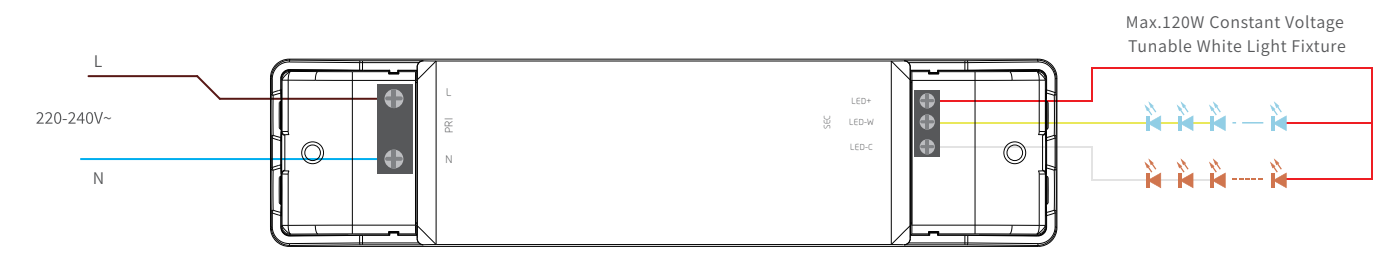
2D Diagram >>>----->>>

| Length (L) | Width (D) | Heigh(H) | Weight(W) |
|------------|-----------|----------|-----------|
| 325mm      | 44mm      | 30mm     | 365.1±10g |



2.4G RF Tunable White Dimmable LED Driver

Wiring Diagram



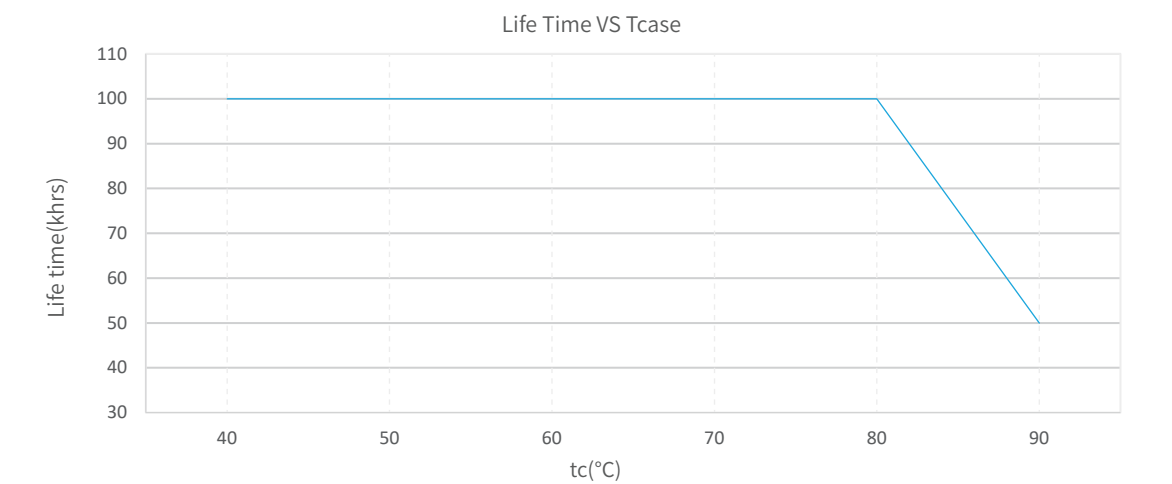
Installation Instructions

| Interface | Marking | Description                             | Wire cross section      | Wire Stripping length |
|-----------|---------|-----------------------------------------|-------------------------|-----------------------|
| Input     | N       | Input terminal of AC neutral wire       | 0.75...1.5mm²(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 | 0.75...2.5mm²(14-18AWG) | 5...6mm               |
|           | LED-W   | Negative electrode output of warm light | 0.75...2.5mm²(14-18AWG) | 5...6mm               |
|           | LED-C   | Negative electrode output of cold light | 0.75...2.5mm²(14-18AWG) | 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.Driver output support hot swap.
- 4.Incorrect wiring can damage the LED.
- 5.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 90% survival rate).  
The relation of tc to ta temperature depends also on the luminaire design.

2.4G RF Tunable White Dimmable LED Driver

Packaging Image



Packaging Size

| Packaging Details      | Carton Size       | Packing Units | Weight    |
|------------------------|-------------------|---------------|-----------|
| Inner Packaging Box    | 329x 49 x 34mm    | 1pcs          | 405.2±10g |
| Small Carton Packaging | 350 x 197 x 167mm | 13pcs         | 5.56kg    |
| Large Carton Packaging | 420 x 360 x 365mm | 52pcs         | 23.2kg    |

Packaging instructions:  
Each large carton packaging contains 4 small carton packagings,Each small carton packaging contains 13 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 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 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.

## 2.4G RF Tunable White Dimmable LED Driver

### 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.