

Intelligent Tunable White LED Driver(Constant Voltage)

- Adopt SAMSUNG/COVESTRO V0 flame resistant polycarbonate protective housings with small size and light weight.
- Bluetooth Mesh & Tuya application protocol with high networking capability are reliable and stable.
- With soft-on and fade-in dimming function enhancing visual comfort.
- Adjust brightness levels when lights are turned on or go to the brightness level adjusted last time.
- 0-100% flicker-free dimming with high frequency exemption level.
- Dimming from 0~100%, down to 0.1%.
- Innovative thermal management technology protects the power life intelligently.
- Overheat, overvoltage, overload, short circuit protection and automatic recovery.
- ullet Suitable for indoor light applications of $\mathbb{I}/\mathbb{II}/\mathbb{II}$ type
- Up to 50000-hour life time.
- 5 -year warranty (Rubycon capacitor).



















 $(The \ certification\ icons\ represent\ on-going\ certification\ applications\ only, and\ final\ certification\ qualification\ are\ subject\ to\ actual\ products$











Technical Specs

Wireless type: Tuya Bluetooth Mesh

Output voltage: 24Vdc

Output voltage range : $24 \text{Vdc} \pm 0.5 \text{Vdc}$ Output current :Max. 4.17 AOutput power :Max. 100 WOutput power range:0-100 W

Strobe level: High frequency exemption level

Dimming range: 0~100%, down to 0.1%

Overload power limitation : ≥102% Ripple & noise: ≤300mV PWM dimming frequency: 3600Hz Input voltage: 220-240Vac Frequency: 50/60Hz

Input current: Max. 0.5A/230Vac

Power factor: PF≥0.98/230Vac (Full load)
THD: 230Vac@THD≤12% (Full load)

Efficiency (Typ): 93% Standby power loss: <0.5W

Inrush current: Cold start45.2A/230Vac(Test twidth=372 us tested under

50% (peak)

Anti surge: L-N: 2kV Leakage current: Max. 0.5mA

Vibration: 10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z

axes respectively

Protection

Overvoltage protection : Shut down the output when non-load voltage $\!\geq\!26\text{V}\text{,}$

 $repower\ on\ to\ recover\ after\ fault\ conditon\ is\ removed.$

Overload protection : Shut down the output when load current≥102%, and

recover automatically

Overheat protection: Intelligently adjust or turn off the output current if the

PCB temperature≥110°C,and recover automatically

Short circuit protection :Enter hiccup mode if short circuit occurs,and recover

automatically

Safety & EMC

 $With stand\ voltage\ : \qquad I/P-O/P:3750 Vac$

Insulation resistance : I/P-0/P:100M $\Omega/500 \text{VDC}/25 ^{\circ}\text{C}$ /70% RH

Safety standards: IEC/EN61347-1, IEC/EN61347-2-13

EMC emission: EN55015, EN61000-3-2, IEC61000-3-3

EMC immunity: EN61000-4-2,3,4,5,6,8,11, EN61547

Strobe test standard: IEEE 1789

ENVIRONMENT

Working temperature : ta: -20 \sim 50°C tc: 80°C Working humidity : 20 \sim 95%RH, non-condensing Storage temperature,Humidity : -40 \sim 80°C, 10 \sim 95%RH

Temperature coefficient : $\pm 0.03\%$ /°C(0-50°C)

Others

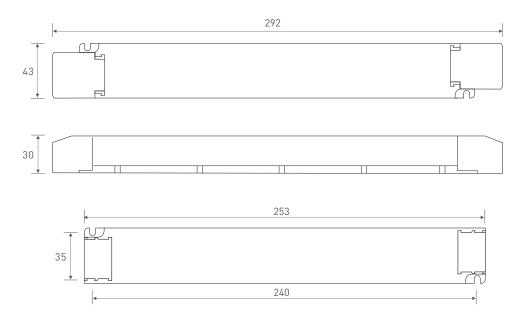
Dimensions(L×W×H): 292×43×30mm(L×W×H)
Package size(L×W×H): 296×44×33mm(L×W×H)

Gross weight: 300g±10g



Product Size

Unit: mm

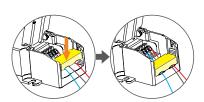


Wiring Diagram



 \star Access the network to control through App and Bluetooth

Tension plate



Push the tension plate down to fix the electric wire.



Push the side plate outwards and remove the tension plate by prying it up with a tool at the same time.

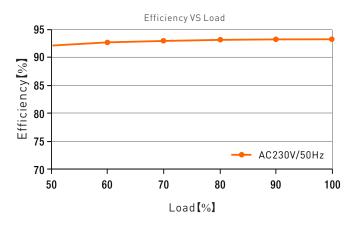
Remove the protective housing

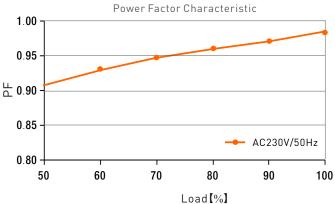


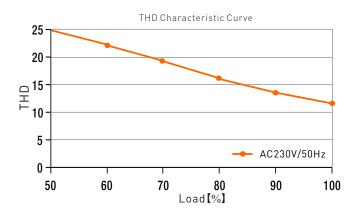
Pull the housing left and right from the bottom to remove it.

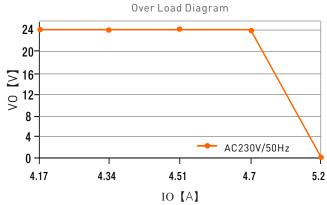


Relationship Diagrams





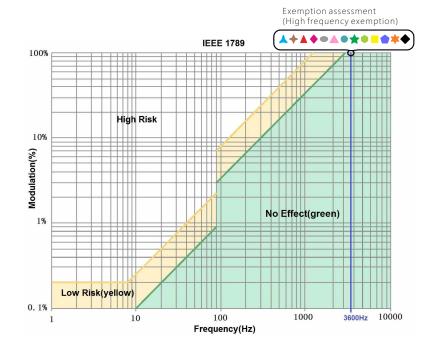




Flicker Test Table

IEEE 1789

| ILLE 1705 | | Brightness |
|--|--|---|
| Limit Value of Modulation in Low Risk Areas | | _ |
| Waveform frequency of Optical output | | ▲ 0.1% |
| f ≤ 8Hz | 0.2 | → 1% |
| 8Hz < f ≤ 90Hz | 0.025 × f | \$ 5% |
| 90Hz < f ≤ 1250Hz | 0.08 × f | 10% |
| f > 1250Hz | Exemption assessment | 20% |
| 7 - 1230112 | | 30% |
| Limit Value of Modulation in No Effect Areas | | 40% |
| Waveform frequency of Optical output | Limit value (%) | * 50% |
| f ≤ 10Hz | 0.1 | 60% |
| 10Hz < f ≤ 90Hz | 0.01 × f | 70% |
| 90Hz < f ≤ 3125Hz | (0.08/2.5) × f | 80% |
| f > 3125Hz | Exemption assessment (High frequency exemption) | 7 90% 1 1 1 1 1 1 1 1 1 1 |





App Operating Instructions

1.Register an account

Tuya Smart App is compatible with iOS and Android systems. Scan the QR code below with you mobile phone and follow the prompts to complete the app installation. After installation being completed, you can log in or register an account.

APP support





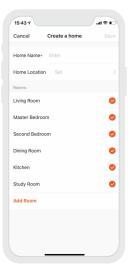


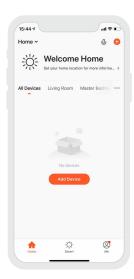


App download

2. Paring instructions

A new user clicks "Me" \rightarrow "Home Management" \rightarrow "Create a Home", give a name to your home and confirm your home location, then add the rooms you need. Click "Add Device" - "Auto Scan" and enable permissions for automatically scanning Bluetooth/Wi-Fi/Zigbee/wired devices. Follow the prompts to add the device (Ensure that the device is ready for network connection).



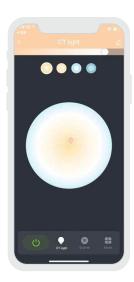




3. Lighting control settings

After paring up your device, click the device you add and adjust to your desired lighting status by brightness changing and color temperature adjustment. In "Settings", there are also lighting alarm clock (Tuya Bluetooth Gateway needs to be added) and countdown functions.









4. Remote control and automation

4.1 Remote control: Add Tuya Bluetooth MESH (SIG) Gateway by search bluetooth devices, and follow the prompts to configure the gateway to the network.

After configuring the network, access the gateway interface and click "Add to the list" or "Search for new devices" to add the device to the gateway, and then the device can be controlled remotely.

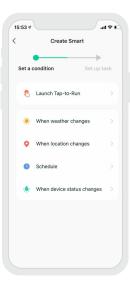






4.2 Automation settings: After adding Tuya Bluetooth MESH (SIG) Gateway, you'll be able to control the lighting remotely by clicking "Automation" in the "Smart" menu. In "Automation", set up conditions from weather, location and timing to other device status so as to trigger the lighting effects you preset and realize the lighting automation.

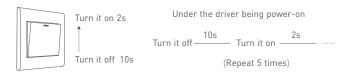






Reset The Device (Reset to factory defaults)

When the driver is power-on, turn it off and after 10s turn it on. After 2s, turn it off again. Repeat the same operation 5 times and then turn on the driver again. When the lamp is flashing (2 flashes/s), reset the device successfully.





Attentions

- Products shall be installed by qualified professionals.
- LTECH products are non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- Good heat dissipation will extend the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.
- * This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

Warranty periods from the date of delivery: 5 years

Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.
- 1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.

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2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

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