

Intelligent LED Driver (Constant Current)

- · 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.
- · Support control iOS or Android devices through Bluetooth connection.
- · With soft-on and fade-in dimming function enhancing visual comfort.
- T-PWM[™]dimming technology allows continuous and flicker-free images under high-speed shooting.
- \cdot 0-100% flicker-free dimming with high frequency exemption level.
- · Dimming from 0~100%, down to 0.01%.
- · Innovative thermal management technology protects the power life intelligently.
- Overheat, over voltage, overload, short circuit protection and automatic recovery
- · Suitable for indoor light applications of I / II / III type.
- · Up to 50,000-hour life time.
- · 5-year warranty (Rubycon capacitor).





IEEE 1789

Dimmable: 0.01-100%

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T-PWM



Flicker-fre















Technical Specs

Tuya Bluetooth Mesh 100-240Vac (120-300Vdc) Wireless type: Input voltage:

9-42Vdc 0/50/60HzOutput voltage: Frequency:

50Vdc 115Vac≤0.2A, 230Vac≤0.1A Max output voltage: Input current

100-400mA Output current: Power factor: PF>0.95/115Vac, PF>0.85/230Vac (Full load)

1W~12W Efficiency (Typ): Load power range:

Flicker level: No visible flicker/High frequency Inrush current: Cold start5A@230Vac (Test twidth=40 us tested under exemption level 50% (peak)

Dimming range: 0~100%, 0.01% depth dimming Anti surge: L-N: 1kV

LF current ripple (<120Hz): Leakage current: <0.24mA/230Vac

Working temperature: Current accuracy: ±5% ta: -20 ~ 50°C tc: 75°C

Working humidity: 20 ~ 95%RH, non-condensing Ripple & noise: ≤2V

10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively PWM dimming frequency: ≤3600Hz Vibration:

Safety & EMC

Safety standards:

Protection

Withstand voltage: I/P-0/P:3750Vac Overvoltage protection: Shut down the output and recover automatically

once it exceeds no-load voltage. Insulation resistance:

I/P-0/P:500Vdc/1min/25°C/70%RH≥10MΩ Overload protection: Shut down the output and recover automatically

Intelligently adjust or turn off the output current if the PCB temperature ≥110°C, and recover automatically EMC emission: EN55015, EN61000-3-2, IEC61000-3-3 Overheat protection:

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

When short circuit occurs, shut down the output and Short circuit protection: **IEEE 1789** recover automatically Strobe test standard

Others

Dimensions(LxWxH): 167x41x32mm Package size(LxWxH): 168x43x35mm Gross weight: 120g±10g

once it exceeds 1.02 times of the max load power.

IEC/EN61347-1, IEC/EN61347-2-13



LED Current Selection

DIP switch quickly selects multiple current value (See the table below).

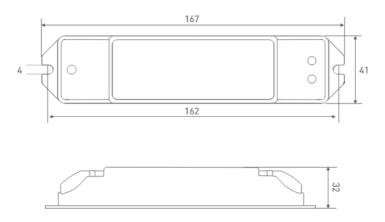
 $*$ Please set current value when the driver is power-off

DIP	SW	ritch
ON		
Щ	Н	Ч
T	2	3

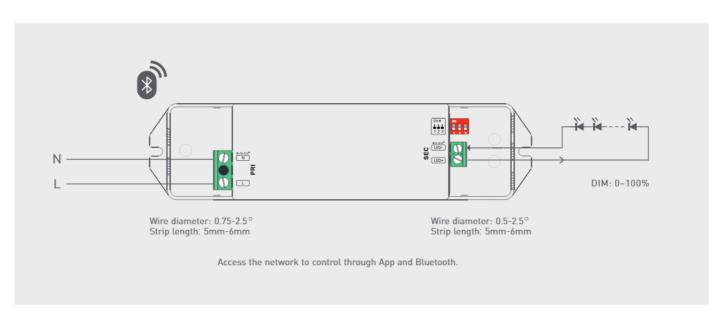
		DIP switch	117	171	1 T T	TIL	TIT	TTL	TTT	Ŧ
	SE-12-100-400-W1Y	Output current	100mA	150mA	200mA	250mA	300mA	350mA	400mA	ON
		Output voltage	9-42V	9-42V	9-42V	9-42V	9-40V	9-34V	9-30V	1
		Output power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12W	3.15-11.9W	3.6-12W	OFF

Product Size

Unit: mm

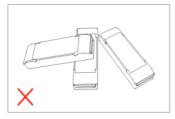


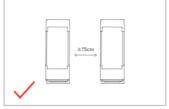
Wiring Diagram



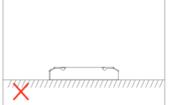


Installation Precautions



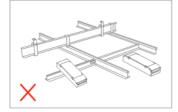


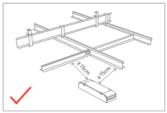
Please do not stack the products. The distance between two products should be \geqslant 15cm so as not to affect heat dissipation and the lifespan of the products.



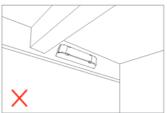


Please do not place the products on the floor. The distance between the product and the floor should be $\geqslant 100 \mathrm{cm}$ so as to avoid signal interference.





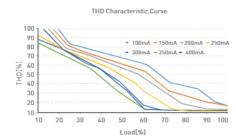
Please do not place the products near a large area of metal objects (such as metal stud ceilings). The distance between the product and the metal object should be >15cm so as to avoid signal interference.

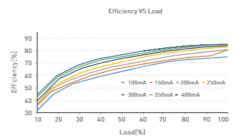




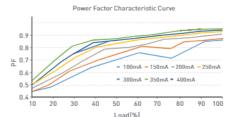
Please do not install the products on beams or near the corners. The distance between the product and the beam or the corner should be ≥15cm so as to avoid signal interference.

Relationship Diagrams



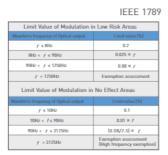


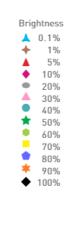
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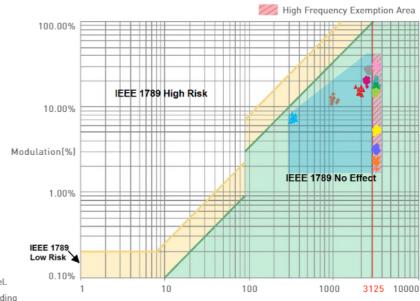


Modulation Area

Flicker Test Table







Marks in the right chart are tested results of different current level.

The output frequency is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

www.ltech-led.com

Frequency(Hz)



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.





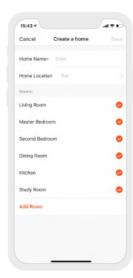


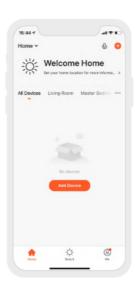


App download

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).

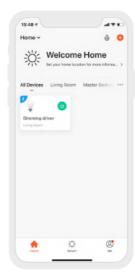




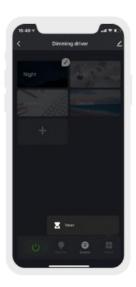


3. Lighting control settings

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





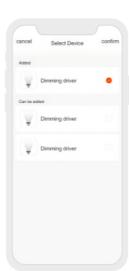




- 4. Remote control and automation
- 4.1 Remote control: Add Tuya Bluetooth MESH SIG) Gateway by search bluetooth devices, and follow the prompts to configure the gateway to the network. After configuring the network, access the gateway interface and click "Add to the list" or "Search for new devices" to add the device to the gateway, and then the device can be controlled remotely.

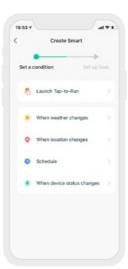






4.2 Automation settings: After adding Tuya Bluetooth MESH SIG) Gateway, you'll be able to control the lighting remotely by clicking "Automation" in the "Smart" menu. In "Automation", set up conditions from weather, location and timing to other device status so as to trigger the lighting effects you preset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

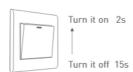






Reset The Device (Reset to factory defaults)

When the driver is power-on, turn it off and after 15s 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.



Under the driver being power-on



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.
- $\bullet \ \ \mathsf{Good} \ \mathsf{heat} \ \mathsf{dissipation} \ \mathsf{will} \ \mathsf{extend} \ \mathsf{the} \ \mathsf{working} \ \mathsf{life} \ \mathsf{of} \ \mathsf{products}. \ \mathsf{Please} \ \mathsf{ensure} \ \mathsf{good} \ \mathsf{ventilation}.$
- · 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.
- 2.LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

Update Log

٧	ersion/	Updated Time	Update Content	Updated by
	A0	2021.03.11	Original version	Liu Weili
	A1	2021.12.10	Update the product silk screen and add installation precautions	Liu Weili