LED Driver Bluetooth 75W 24V - LM-75-24-G1B2 2861100

General

Product Type	Wireless, Constant Voltage Driver,
Length (mm)	292
Width (mm)	43
Height (mm)	30
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	300

Electronics

Input Domain	AC
Input Voltage	100 ~ 240V AC
Input Current max (A)	0.4A @ 230V AC
Output Voltage	24V DC
Output Current Max. (A)	3.125
Output Power Range (W)	0~75
Output Power (W)	75W @ 24V
Power Factor at Full Load	+0.97 @ 230VAC
Power Supply	Internal
LED Outputs	1
Anti Surge	L-N: 2kV
Efficiency	92%
Leakage current max. (mA)	0.5
Standby Power Loss Max. (W)	0.5
Input Frequency	50 ~ 60Hz
Inrush Current	40A @ 230VAC

Lighting

Color Range	Single Color

Control

Output Signal	PWM-CV
Control	Bluetooth
Dimming Range	0~100%, 0.1% dimming depth.
Number of Channels	1

Protection

Protection Class	II

Environmental

Storage Temperature	-40 ~ +80 °C
Operating Temperature	-20 ~ +50 °C
Fire-retardant	V-0
Ingress Protection	IP20
Safety Standards	NEN-EN-IEC 61347-1, NEN-EN-IEC 61347-2-13,

CE RoHS COMPLIANT IP20 5 year warranty

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Paper size: A4

LM-75-24-G1B2

LTECH | Tuya Bluetooth Mesh

Intelligent 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.
- Suitable for indoor light applications of Ⅰ/Ⅱ/Ⅲ type .
- Up to 50000-hour life time.
- 5 -year warranty (Rubycon capacitor).

LTECH | tuya
Strategic Partnership

Flicker-free
IEEE 1789

Dimmable:
0.1%-100%

SELV RoHS

(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 :	24Vdc ± 0.5Vdc
Output current :	Max. 3.125A
Output power :	Max. 75W
Output power range:	0-75W
Strobe level:	No visible flicker/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. 0.4A/230Vac
Power factor:	PF≥0.97/230Vac (Full load)
THD :	230Vac@THD≤14% (Full load)
Efficiency (Typ):	92%
Standby power loss :	＜0.5W
Inrush current :	Cold start40A/230Vac(Test twidth=372 us tested under 50%Ipeak)
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≥26V, 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

Withstand voltage :	I/P-O/P:3750Vac
Insulation resistance :	I/P-O/P:100MΩ/500VDC/25°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

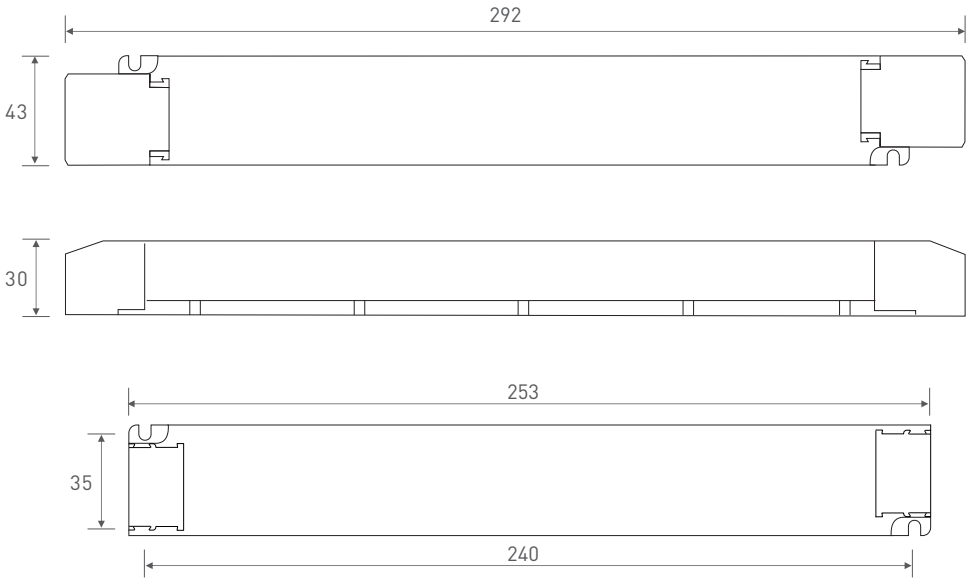
Working temperature :	ta: -20 ~ 50°C tc: 80°C
Working humidity :	20 ~ 95%RH, non-condensing
Storage temperature,Humidity :	-40 ~ 80°C, 10~95%RH
Temperature coefficient :	±0.03%/°C(0-50°C)

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



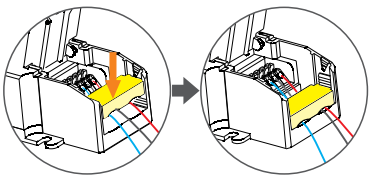
Wiring Diagram

Wire diameter:0.75-1.5□
Strip length:8mm-9mm

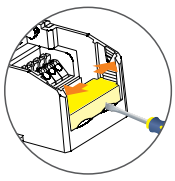
Wire diameter:1.0-1.5□
Strip length:8mm-9mm

✻ Access the network to control through App and Bluetooth

Tension plate

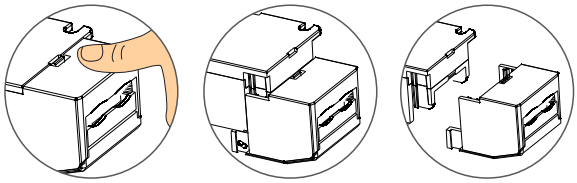


Push the tension plate down to fix the electric wire.



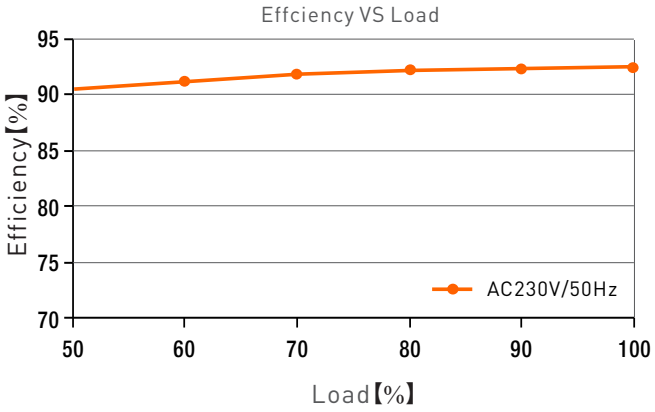
Push the side plate outwards and remove the tension plate by prying it up with a tool at the same time.

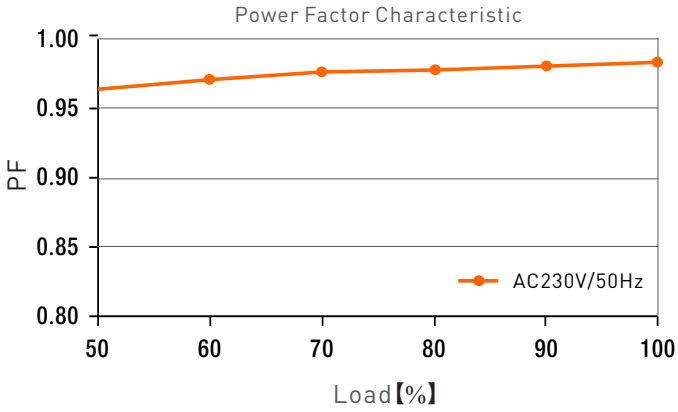
Remove the protective housing

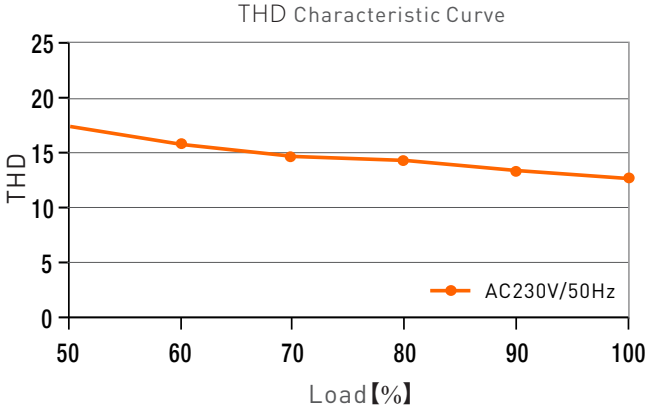


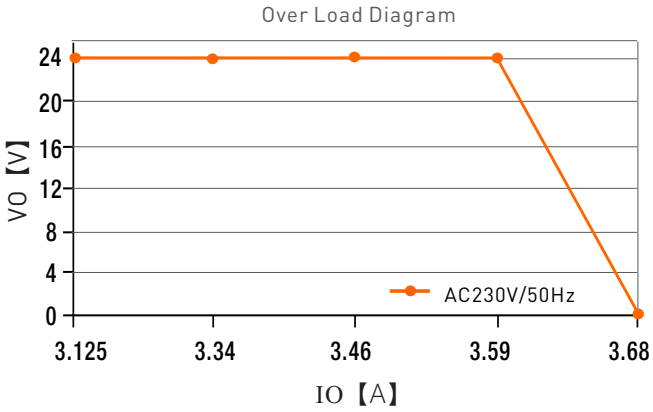
Pull the housing left and right from the bottom to remove it.

Relationship Diagrams







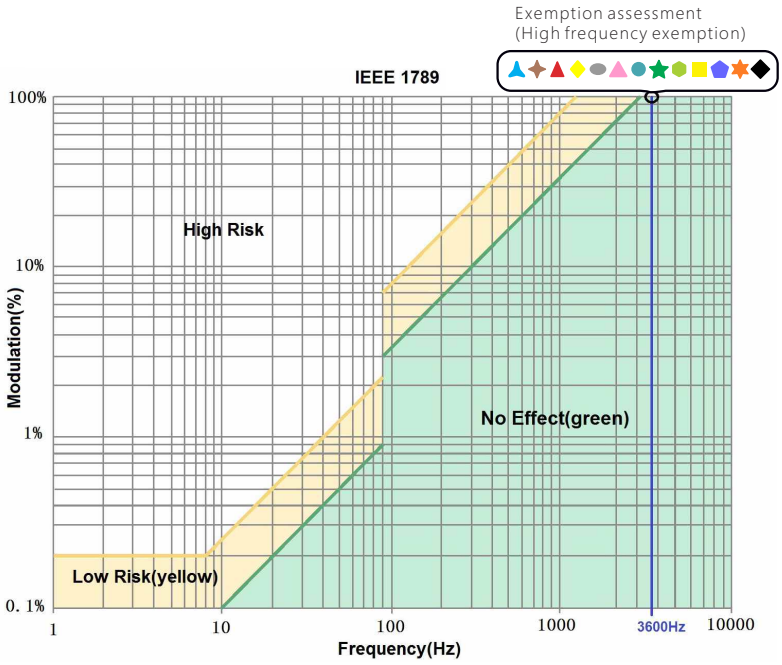


Flicker Test Table

IEEE 1789

Limit Value of Modulation in Low Risk Areas	
Waveform frequency of Optical output	Limit value (%)
$f \leq 8Hz$	0.2
$8Hz < f \leq 90Hz$	$0.025 \times f$
$90Hz < f \leq 1250Hz$	$0.08 \times f$
$f > 1250Hz$	Exemption assessment
Limit Value of Modulation in No Effect Areas	
Waveform frequency of Optical output	Limit value (%)
$f \leq 10Hz$	0.1
$10Hz < f \leq 90Hz$	$0.01 \times f$
$90Hz < f \leq 3125Hz$	$(0.08/2.5) \times f$
$f > 3125Hz$	Exemption assessment (High frequency exemption)

Brightness
- 0.1%
- 1%
- 5%
- 10%
- 20%
- 30%
- 40%
- 50%
- 60%
- 70%
- 80%
- 90%
- 100%



App Operating Instructions

1.Register an account

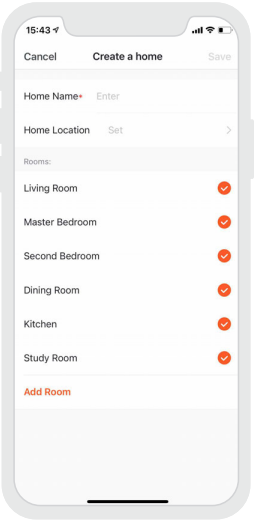
Tuya Smart App is compatible with iOS and Android systems. Scan the QR code below with you mobile phone and follow the prompts to complete the app installation. After installation being completed, you can log in or register an account.

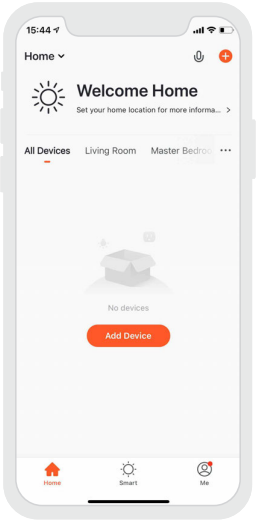
APP support

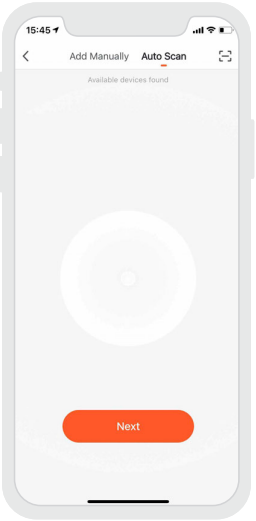
App download

2. Paring instructions

A new user clicks "Me" →"Home Management"→ "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).

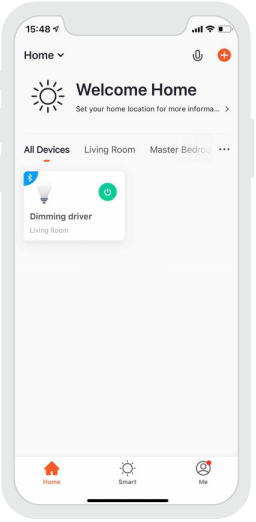


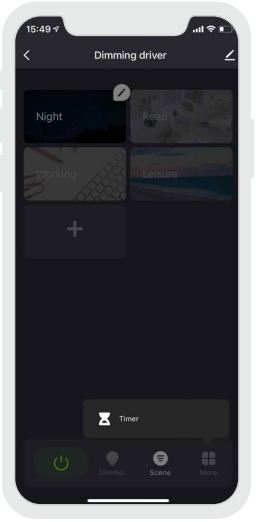




3. Lighting control settings

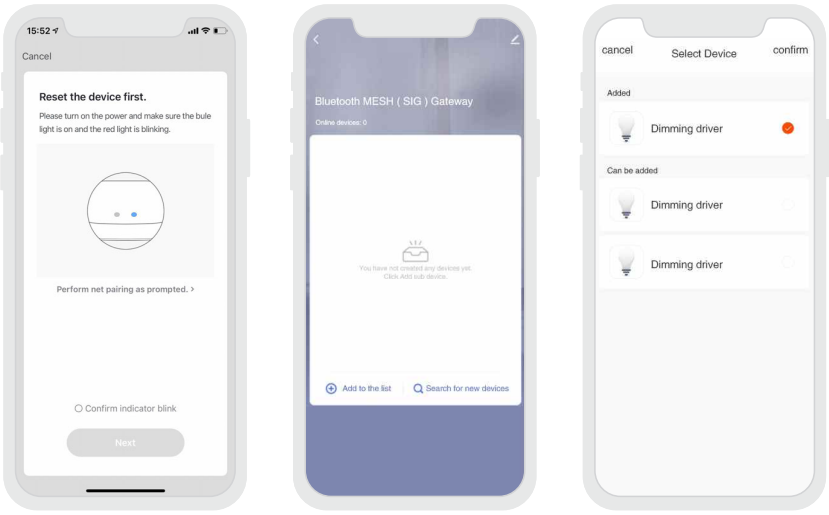
After paring up your device, click the device you add and adjust to your desired lighting status by changing brightness. In "Settings", there are also lighting alarm clock (Tuya Bluetooth Gateway needs to be added) and countdown functions.



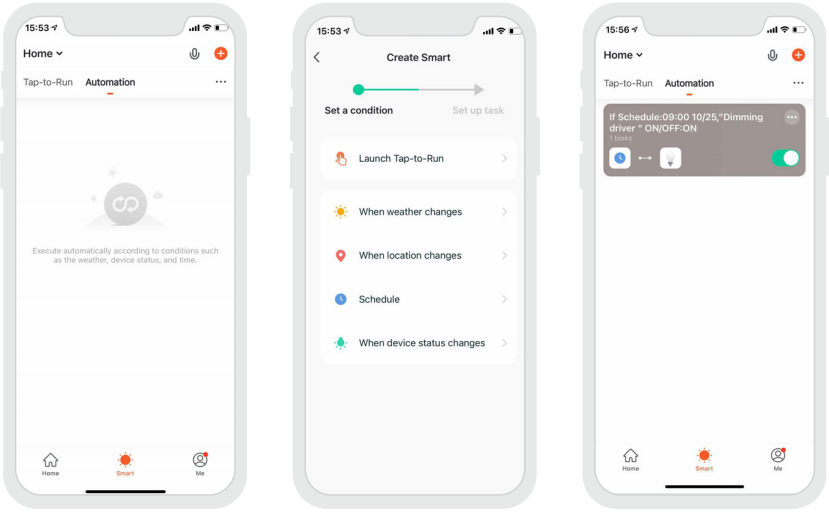


4. Remote control and automation

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.

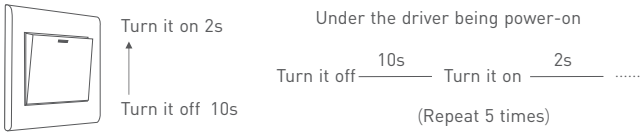


4.2 Automation settings: After adding Tuya Bluetooth MESH (SIG) Gateway , you'll be able to control the lighting remotely by clicking "Automation" in the "Smart" menu. In "Automation", set up conditions from weather, location and timing to other device status so as to trigger the lighting effects you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



Reset The Device (Reset to factory defaults)

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

- Please use in spacious and open space. Avoid metal obstructions above and in front of products.
- Please use in a cool and dry environment.
- No disassembly of products so as not to affect the warranty.
- Please keep away from heat.
- Please do not open, modify, repair or maintain products , otherwise warranties are not allowed.

Warranty Agreement

Thanks for your purchasing. Our products offer a 5-year warranty and you can enjoy free maintenance services within 5 years from the date of receiving products. Please contact your suppliers before sending products back to repair.

Warranty exclusions below:

- Any failure or damage of products caused by improper installation, operation, maintenance and storage ,which results from failing to follow manuals.
- Beyond warranty periods.
- Alter or tear up product bar codes without authorization.
- Change configuration files of products or dismantle products for repair without authorization.
- Artificial damage of products, such as Improper voltage, high temperature, water damage, mechanical damage, smash, serious oxidation, and rust.
- Failures or damage of products caused by force majeure , such as earthquake, fire disaster, flood, and electric shock.
- Failures or damage of products not caused by product designs, technology, manufacturing, or quality.

* 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.