# LM-75-24-G1B2



SELV

CE RoHS

Overheat protectior

# 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).





# **Technical Specs**

Wireless type:	Tuya Bluetooth Mesh	Input voltage:	220-240Vac
Output voltage:	24Vdc	Frequency:	50/60Hz
Output voltage range :	$24Vdc \pm 0.5Vdc$	Input current:	Max. 0.4A/230Vac
Output current :	Max. 3.125A	Power factor:	PF≥0.97/230Vac (Full load)
Output power :	Max. 75W	THD :	230Vac@THD≤14% (Full load)
Output power range:	0-75W	Efficiency (Typ):	92%
Strobe level:	No visible flicker/High frequency	Standby power loss :	<0.5W
	exemption level	Inrush current :	Cold start40A/230Vac(Test twidth=372 us tested under
Dimming range:	0~100%, down to 0.1%		50%lpeak)
Overload power limitation :	≥102%	Antisurge:	L-N: 2kV
Ripple & noise:	≤300mV	Leakage current :	Max. 0.5mA
PWM dimming frequency:	3600Hz	Vibration:	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively

Strategic Partnership

Flicker-free

**IEEE 1789** 

Dimmable: .....

0.1%-100%

Short circui

(The certification icons rep

#### 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 ${\geq}102\%, and$ recover automatically Intelligently adjust or turn off the output current if the Overheat protection : PCB temperature≥110°C,and recover automatically Short circuit protection :Enter hiccup mode if short circuit occurs,and recover automatically

### **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)

### Safety & EMC

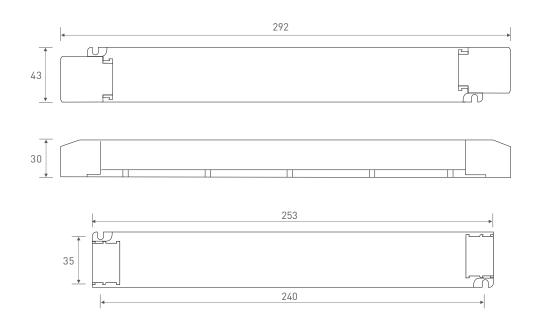
Withstand voltage :	I/P-0/P:3750Vac
Insulation resistance :	I/P-0/P:100MΩ/500VDC/25°C/70%RH
Safety standards:	IEC/EN61347-1, IEC/EN61347-2-13
EMC emission:	EN55015, EN61000-3-2 , IEC61000-3-3
EMC immunity:	EN61000-4-2,3,4,5,6,8,11, EN61547
Strobe test standard:	IEEE 1789

### Others

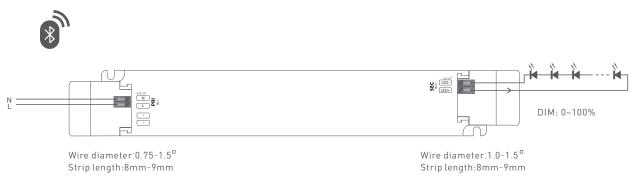
Dimensions(L×W×H) : 292×43×30mm(L×W×H) Package size(L×W×H) : 296×44×33mm(L×W×H) 300g±10g Gross weight:

### **Product Size**

Unit : mm

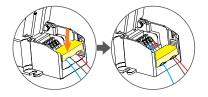


### Wiring Diagram



 $\ast$  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.

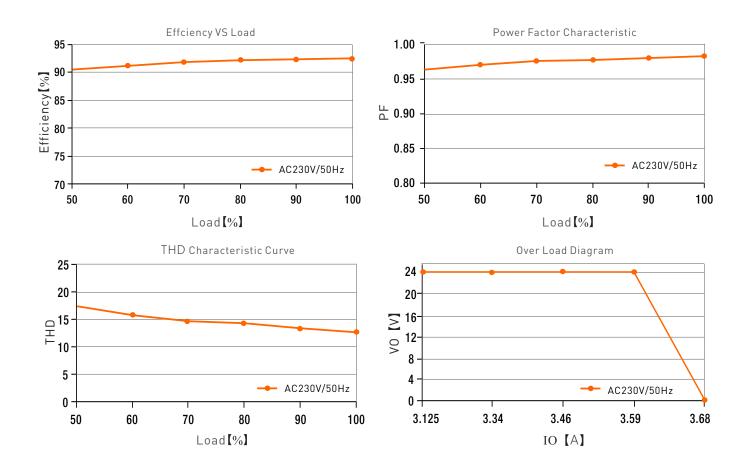
### Remove the protective housing



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



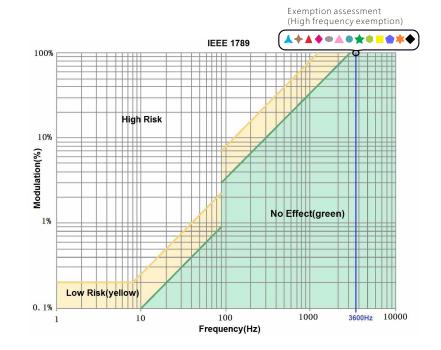
# **Relationship Diagrams**



# **Flicker Test Table**

### IEEE 1789

IEEE 1789		Brightness	
Limit Value of Modulation			
Waveform frequency of Optical output	Limit value (%)	<b>A</b> 0.1%	
<i>f</i> ≤ 8Hz	0.2	♦ 1%	
$8Hz < f \le 90Hz$	0.025 ×f	▲ 5%	
90Hz < f ≤ 1250Hz	0.08 ×f	<ul><li>♦ 10%</li><li>● 20%</li></ul>	
f > 1250Hz	Exemption assessment	▲ 30%	
Limit Value of Modulation	in No Effect Areas	40%	
Waveform frequency of Optical output	Limit value (%)	🗯 50%	
<i>f</i> ≤ 10Hz	0.1	<b>60%</b>	
10Hz < <i>f</i> ≤ 90Hz	0.01 ×f	70%	
90Hz < f ≤ 3125Hz	(0.08/2.5) × f	80%	
f > 3125Hz	Exemption assessment (High frequency exemption)	♥ 90% ♦ 100%	



# **App Operating Instructions**

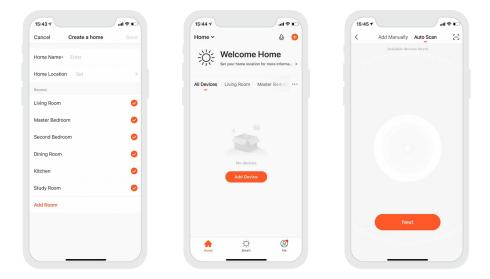
#### 1.Register an account

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.



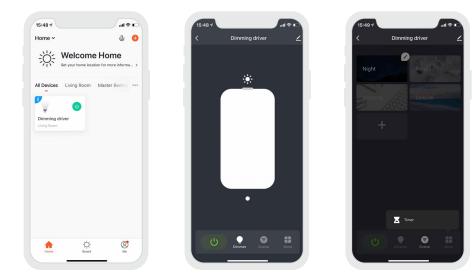
#### 2. Paring instructions

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

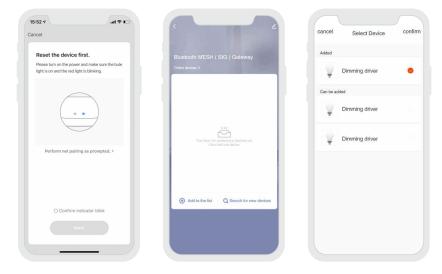
After paring up your device, click the device you add and adjust to your desired lighting status by changing brightness. In "Settings", there are also lighting alarm clock (Tuya Bluetooth Gateway needs to be added) and countdown functions.





#### 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.

5:53 1 ome ~		15:53 4	Create Smart	.al ≈ ∎	15:56 -7 Home ~	
ap-to-Run Automation		- Î		×	Tap-to-Run Automatic	on
		Set a condition	on Set uj	otask	If Schedule:09:00 10/ driver " ON/OFF:ON	25,"Dimming …
		8 Laund	ch Tap-to-Run			
		🔅 When	weather changes			
xecute automatically accord as the weather, device s	ng to conditions such tatus, and time.	O When	location changes			
		Sched	dule			
		🍨 When	n device status change	es >		
Home	© Me				Home Sm	Me
Hume amary						

### 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.

Turn it on 2s	Under the driver being power-on			
	Turn it off Turn it on			
Turn it off 10s	(Repeat 5 times)			



### 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.