

Intelligent Tunable White LED Driver (Constant Voltage)

The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTRO.

Ultra-small, thin and light screwless end cap.

Change the fadd time, power-on Status and other parameters on the NFC programmer or via the App, and sync the parameters to the driver.

Bluetooth 5.0 SIG Mesh with high networking capability is reliable and stable.

Gain control on iOS or Android devices through Bluetooth connection.

With soft-on and fade-in dimming function, enhancing your visual comfort.

0-100% full dimming with video flashing capability

Dimming range 0~100%, LED dimming starts from 0.0001%

Comply with the EU's ErP Directive, networked standby<0.5W.

Overheat, over voltage, overload, short circuit protection and automatic recovery.

Suitable for Class I / II /III indoor light fixtures.

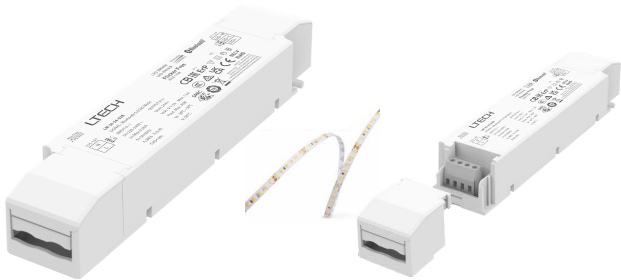
Normal service life can reach 100,000 hours.

5-year warranty (Rubycon capacitor)

Flicker Free
IEEE 1789



Dimmable:
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The certification icon represents undergoing certification applications only, and final certification qualification subject to actual product.



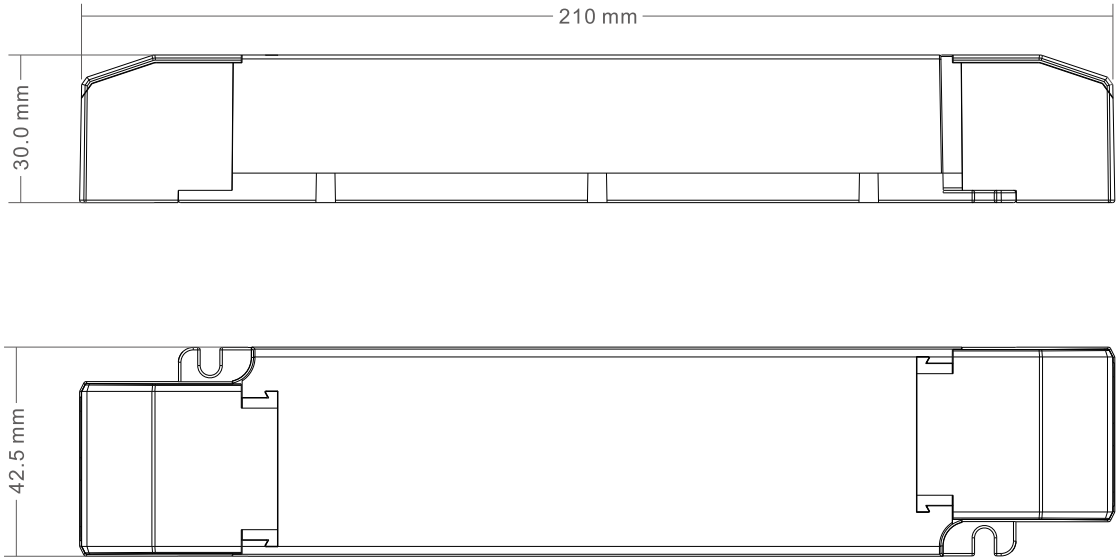
Technical Specs

Model		LM-36-24-G2B		
Features	Output Type	Constant voltage		
	Dimming Interface	Bluetooth 5.0 SIG Mesh		
	Output Feature	Isolation		
	Protection Grade	IP20		
	Insulation Grade	Class II [Suitable for class I/ II /III light fixtures]		
OUTPUT	Output voltage	24Vdc		
	Output voltage range	24Vdc±0.5Vdc		
	output current	Max. 1.5A		
	Load power	Max. 36W		
	Dimming Range	0~100%, down to 0.0001%		
	Ripple and Noise	≤200mV		
	Current Accuracy	±5%		
	PWM Frequency	≤3600Hz		
INPUT	DC Voltage Range	200-280Vdc		
	AC Voltage Range	220-240Vac		
	Input Voltage	230Vac		
	Frequency	50/60Hz		
	Input Current	Max. 0.26A/230Vac		
	Power Factor	PF>0.95/230Vac (at full load)		
	THD	THD≤8%@230Vac (at full load)		
	Efficiency (Typ.)	88%		
	Inrush Current	Cold start 25A[Test twidth=204us tested under 50% Ipeak]/230Vac		
	Anti Surge	L-N: 2KV		
	Leakage Current	Max. 0.5mA		
ENVIRONMENT	Working Temperature	ta: -20 ~ 50°C tc: 90°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]		
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively		
PROTECTION	Overload Protection	Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced		
	Overheat Protection	Intelligently adjust or turn off the current output if the PCB temperature ≥110°C. When the PCB temperature <90°C, automatically recover normal output		
	Overvoltage Protection	Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically		
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically		
	Withstand Voltage	I/P-O/P: 3750Vac		
SAFETY & EMC	Insulation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH		
	Safety Standards	CCC	China	GB19510.1, GB19510.14
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493
		CB	CB Member States	IEC61347-1, IEC61347-2-13
		CE	European Union	EN61347-1, EN61347-2-13, EN62384
		KC	Korea	KC61347-1, KC61347-2-13
		EAC	Russia	IEC61347-1, IEC61347-2-13
		RCM	Australia	AS 61347-1, AS 61347-2-13
		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384
	EMC Emission	UKCA	Britain	BS EN 61347-1, BS EN 61347-2-13,BS EN 62493
		CCC	China	GB/T17743, GB17625.1
		CE	European Union	En55015, EN61000-3-2, EN61000-3-3, En61547
		KC	Korea	KSC 9815, KSC 9547
		EAC	Russia	IEC62493, IEC61547, EH55015
		RCM	Australia	En55015, EN61000-3-2, EN61000-3-3, EN61547
		UKCA	Britain	BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547		
	ErP	Power Consumption	Networked standby	<0.5W (After shutdown by command)
No-load power consumption			<0.5W (When the lamp is not connected)	
Flicker/Stroboscopic Effect		IEEE 1789	Meet IEEE 1789 standard/High frequency exemption level	
		CIE SVM	Pst LM≤1.0, SVM≤0.4	
DF		Phase factor	DF≥0.9	
其他	Weight(N.W.)	210g±10g		
	Dimensions	210×43×30mm[L×W×H]		

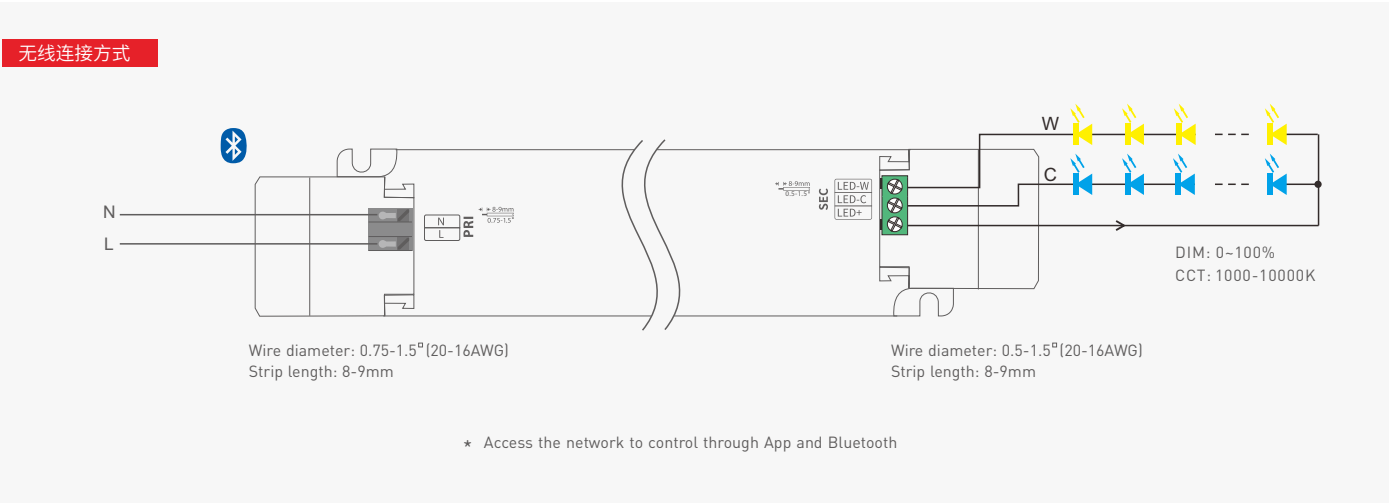
The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), then we can prepare the special programs.

Product Size

Unit: mm

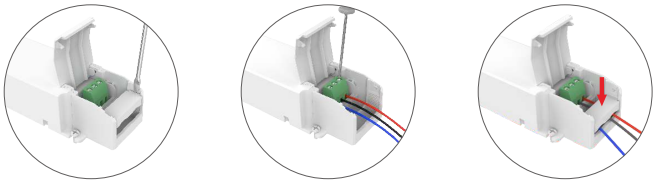


Wiring Diagram



Protective Housing Application Diagram

Tension plate



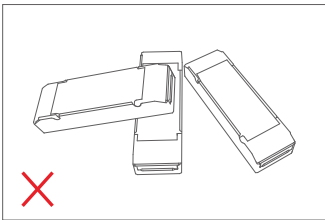
Open the protective cover, use a screwdriver to pry up the side of the crimping board and remove it. After wiring according to the wiring diagram, press down on the wire board to fix the wire, and close the protective cover.

Remove the protective housing

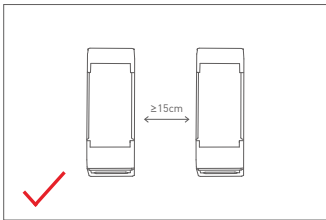


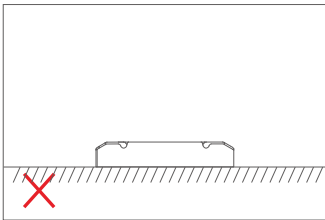
Press down on the bottom of the shell and twist it left and right to remove the protective cover.

Installation Precautions

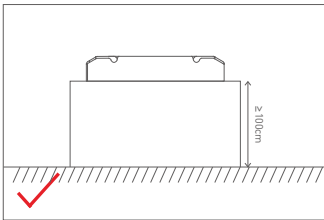


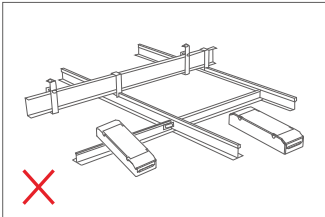
Please do not stack the products. The distance between two products should be $\geq 15\text{cm}$ so as not to affect heat dissipation and the lifespan of the products.



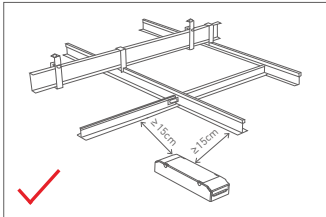


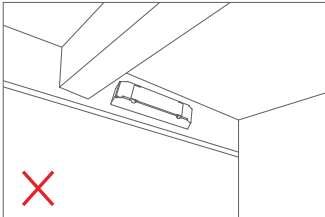
Please do not place the products on the floor. The distance between the product and the floor should be $\geq 100\text{cm}$ so as to avoid signal interference.



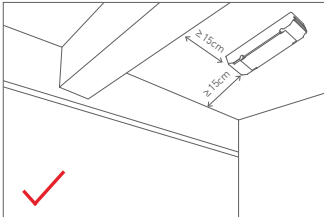


Please do not place the products near a large area of metal objects (such as metal stud ceilings). The distance between the product and the metal object should be $\geq 15\text{cm}$ so as to avoid signal interference.





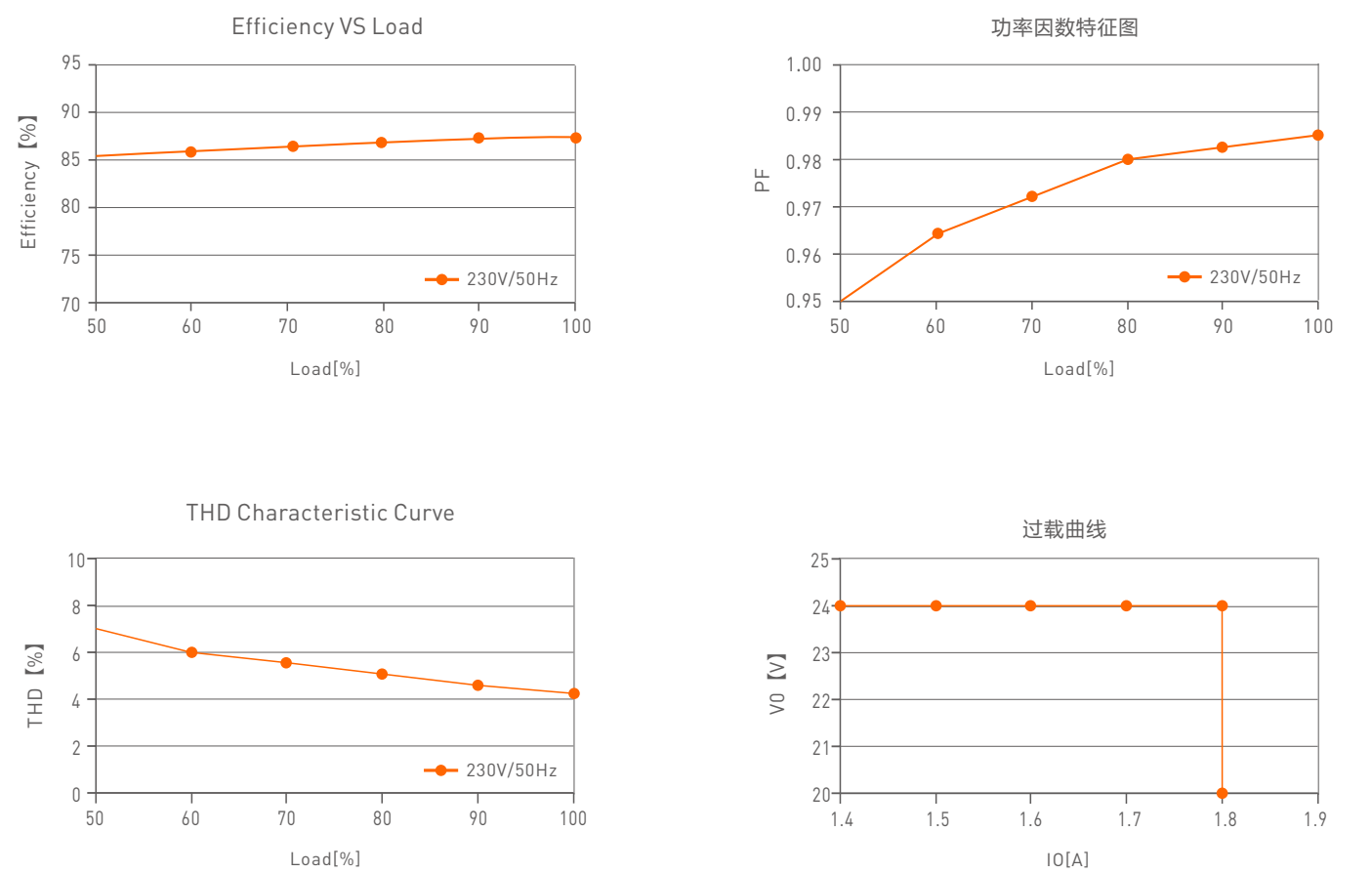
Please do not install the products on beams or near the corners. The distance between the product and the beam or the corner should be $\geq 15\text{cm}$ so as to avoid signal interference.



Note: The temperature within the installation area should be within the working temperature range of the products. Please do not install products inside LED fixtures to avoid temperature exceeding the working temperature that may affect the product lifetime.

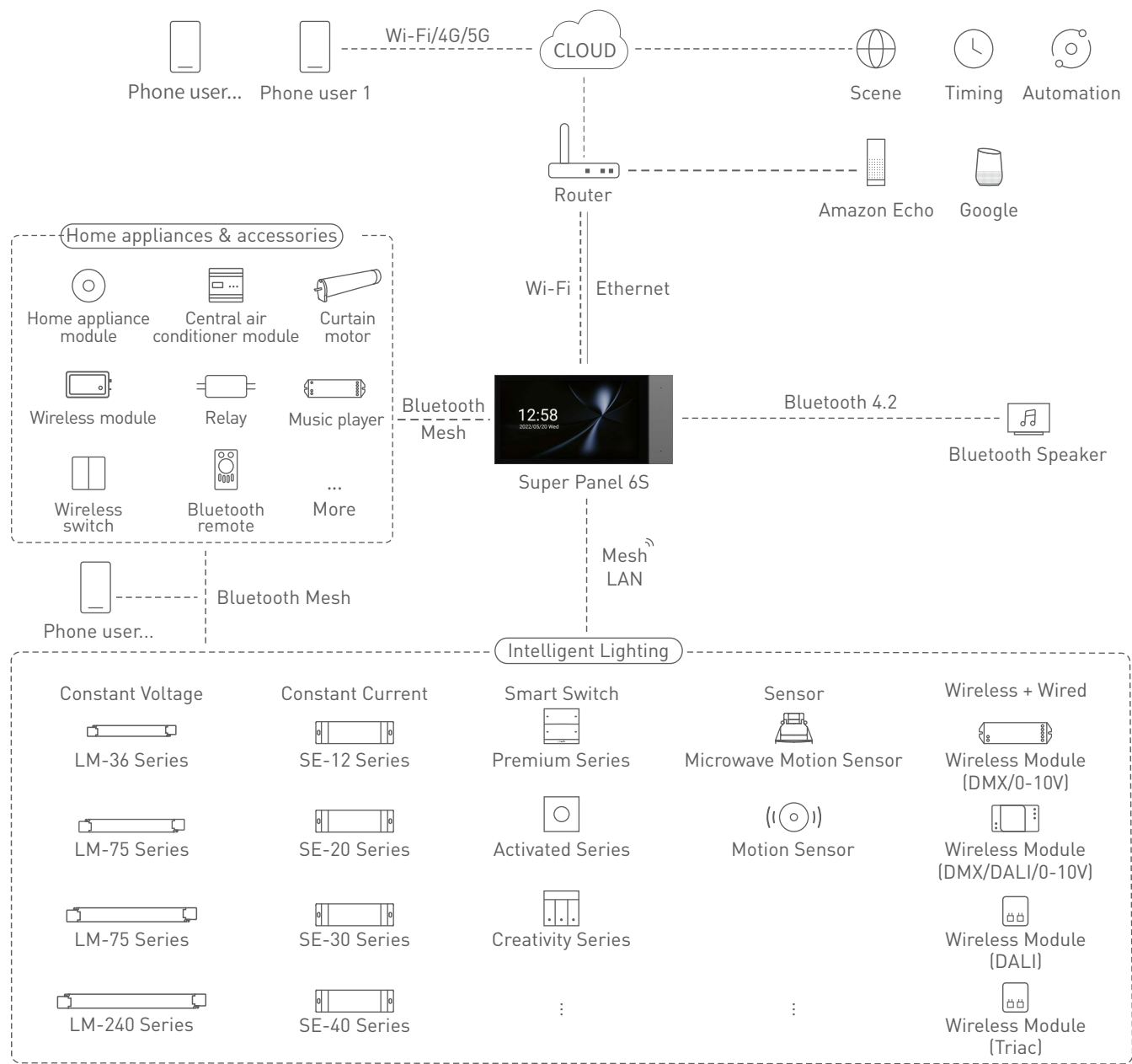
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Relationship Diagrams




LM-36-24-G2B


Bluetooth System Diagram




Recommend Applications

1. Achieve fast dimming control.
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Phone


Bluetooth driver

Lamp
2. Both App and remote can control the driver after connecting the remote to the driver with App.
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Phone


Remote

Intelligent wireless switch


Bluetooth driver

Lamp
3. Both App and Super Panel 6S can control the driver simultaneously after connecting the Super Panel 6S to the driver with App. By connecting the Super Panel to network, you are allowed to control the driver, cloud scenes and automation remotely with App.
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Phone

Super Panel 6S

Bluetooth driver

Lamp
4.More applications of intelligent control are waiting for you to set up.

Use with Bluetooth L-Home APP

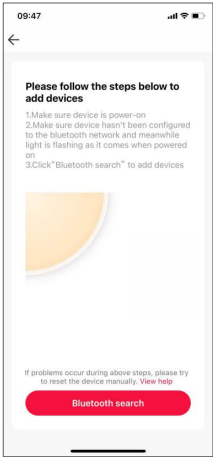
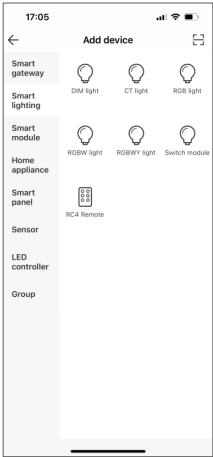
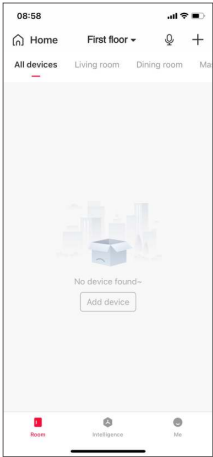
1. Register an account

The App is available on iOS or Android devices. Scan the QR code below with you mobile phone and follow the prompts to complete the App installation. Open the App to log in or register an account.



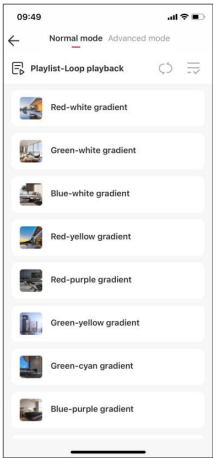
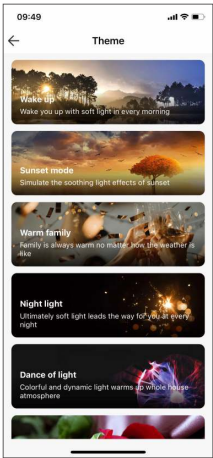
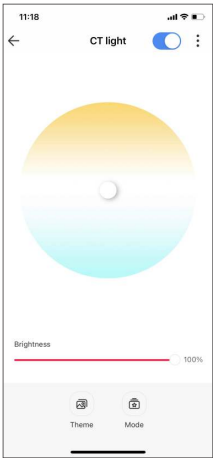
2. Paring instructions

Open the APP and create a home if you are a new user. Click “+” icon in the upper right corner and access the “Add Device” list, then follow the prompts to add the device. Pick “Smart lighting-CT light” from the list and follow the prompts to power on the device firstly. Make sure the device is not connected to the network. Then click “Bluetooth Search” and follow the prompts to add the device.



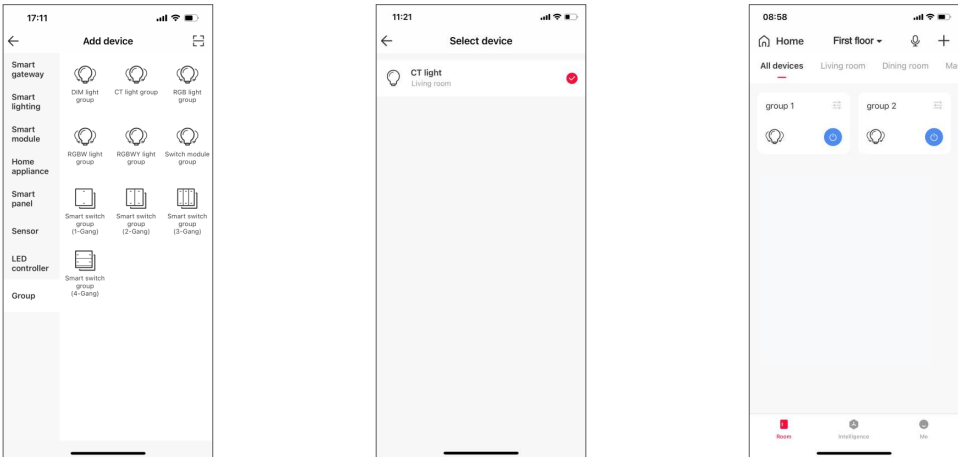
3. Control interface settings

After pairing up your device, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness and color temperature. Click "Theme" and you'll easily switch to multiple theme lighting effects with one tap. Click "Mode" and the App provides you editable advanced modes. Customize dynamic modes to put you into a more colorful life.



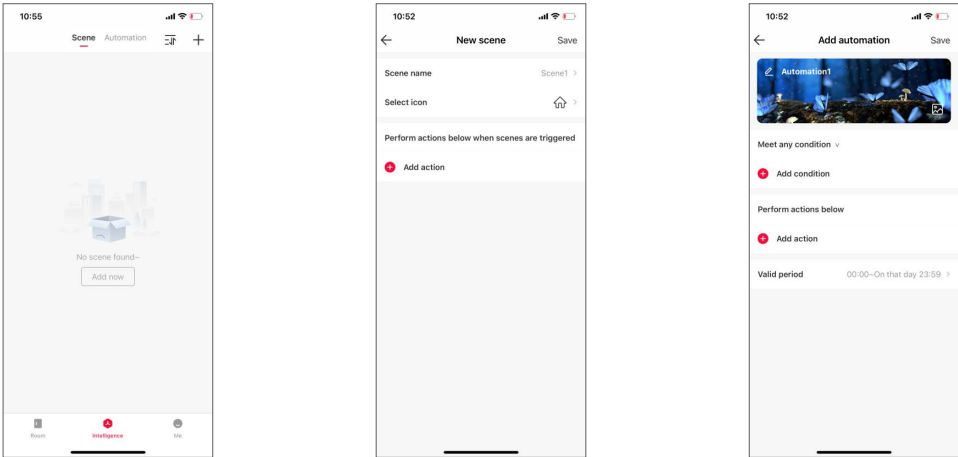
4. Light groups

Users are able to combine the same type of light fixtures into a group to control them simultaneously. Once you create the group, you can set the dim level and adjust the color temperature more easily. Pick "Group-CT light group" from the list . Follow the prompts to rename the group and click "Next" to pick the lights you are going to group together and click "Save".



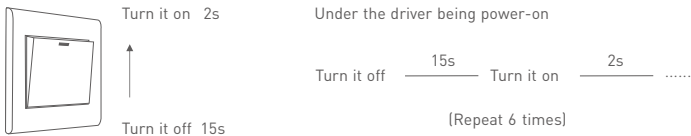
5. Advanced functions

This driver can be linked up with gateway function devices (such as LTECH Super Panel) to achieve the advanced functions from cloud scenes to automation.

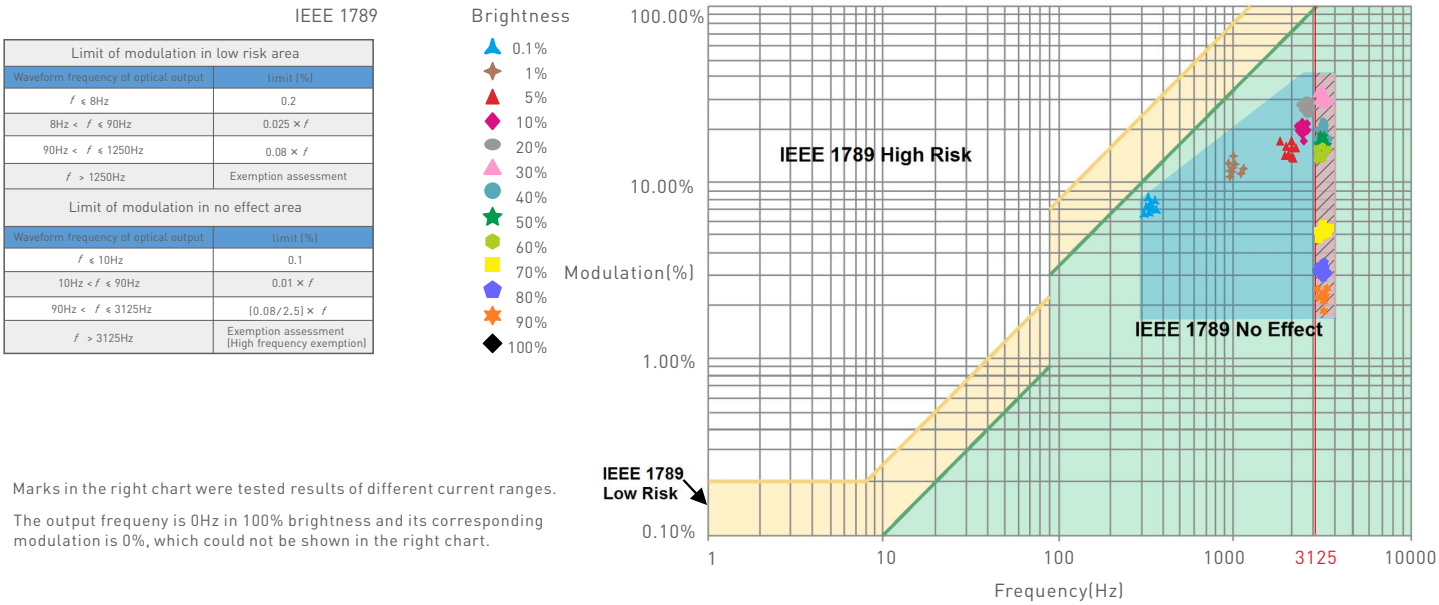


Reset The Device (Reset to factory defaults)

Make sure the driver is well-connected to a lamp and the lamp is on, turn it off with the switch and after 15s turn it on. After 2s, turn it off again. Repeat the same operation 6 times. When the lamp flashes 5 times , reset the device to factory defaults successfully.



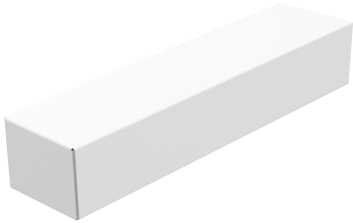
Flicker Test Sheet



Packaging Specifications

Model	LM-36-24-G2B
Carton Dimensions	318×240×215mm[L×W×H]
Quantity	5 PCS/Layer; 4 Layers/Carton; 40 PCS/Carton
Weight	0.21kg/PC; 8.4 kg±5%/Carton

Packaging Image



Inner Packaging Box



Carton Packaging

Transportation and Storage

1. Transportation

Products can be shipped via vehicles, boats and planes.

During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.

Attentions

- This product must be installed and adjusted by a qualified professional.
- LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices .
- Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
- Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.

※ 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

Version	Updated Time	Update Content	Updated by
A0	20231028	Original version	Yang Weiling