LTECH

Intelligent Tunable White LED Driver (Constant Voltage)

- Adopt SAMSUNG/COVESTRO V0 flame resistant polycarbonate protective housings with small size and light weight.
- Bluetooth 5.0 SIG Mesh 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.
- 0-100% dimming range, down to 0.1%.
- Energy-efficient driver: Efficiency 93%, PF>0.98,THD<6%.
- Comply with the EU's ErP Directive, standby power consumption<0.5W.
- Innovative thermal management technology protects the power life intelligently.
- Overheat, overvoltage, overload, short circuit protection and automatic recovery.
- The design of removable end housing is convenient to adjust the length of driver.
- Suitable for indoor light applications of I / II / III type.
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor).





Dim / CT





















Technical Specs

Model		LM-150-12-G2B2	LM-150-24-G2B2
ОИТРИТ	Output Voltage	12Vdc	24Vdc
	Output Voltage Range	12Vdc±0.5Vdc	24Vdc±0.5Vdc
	Output Current	Max. 12.5A	Max. 6.25A
	Output Power	Max. 150W	
	Output Power Range	0~150W	
	Strobe Level	High frequency exemption level.	
	PWM Frequency	3600Hz	
	Dimming Range	0~100%, down to 0.1%	
	Overload Power Limitation	≥ 102%	
	Ripple & Noise	Switch ripple<200mV, noise<800mV	Switch ripple<200mV, noise<500mV
INPUT	Control Mode	Bluetooth 5.0 SIG Mesh	
	Input Voltage	220-240Vac 200-280Vdc	
	Frequency	50/60Hz	
	Input Current	Max. 0.75A/230Vac	
	Power Factor	PF>0.98/230Vac at full load	
	THD	230Vac@THD<6% at full load	
	Efficiency(Typ.)	92%	93%
	Standby Power Loss	<0.5W	
	Inrush Current	Cold start 45A/230Vac	
	Anti Surge	L-N: 2KV	
	Leakage Current	Max. 0.5mA	
ENVIRONMENT	Working Temperature	ta: -20 ~ 50°C tc: 85°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	Overheat Protection	Intelligently adjust or turn off the output current if the PCB temperature > 110°C, and recover automatically	
	Overvoltage Protection	Shut down the output when non-load voltage≥16V, repower on to recover after fault condition is removed	Shut down the output when non-load voltage>28V, repower on to recover after fault condition is removed
	Overload Protection	Shut down the output when current load≽102%, and recover automatically	
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically	
SAFETY & EMC	Withstand Voltage	I/P-0/P: 3750Vac	
	Isolation 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 Class C, IEC61000-3-3	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547	
	Strobe Test Standard	IEEE 1789	
OTHERS	Weight(G.W.)	330g±10g	
	Dimensions	352×43×30mm(L×W×H)	
	Packing Size	355×44×33mm(L×W×H)	
	Carton Size	370×340×93mm(L×W×H) 20pcs/ctn 9.4kg±5%/ctn	

^{*} 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 fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), so that we can prepare them with special procedures.

1

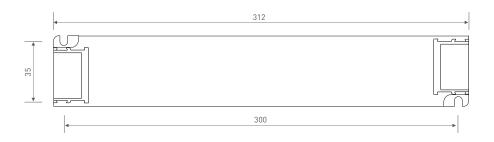


Product Size

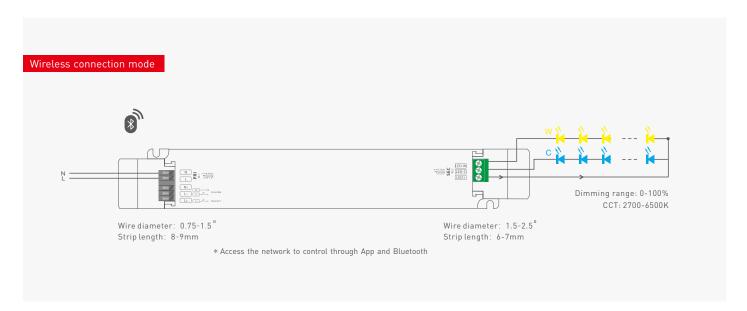
Uint: mm







Wiring Diagram





Protective Housing Application Diagram

1. 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.

2. Remove the protective housing

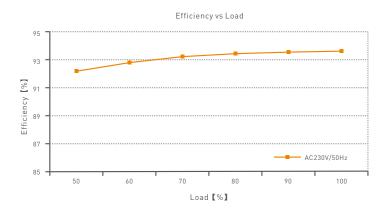


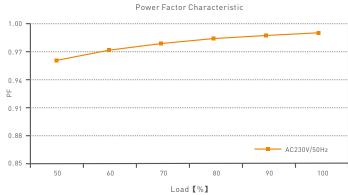


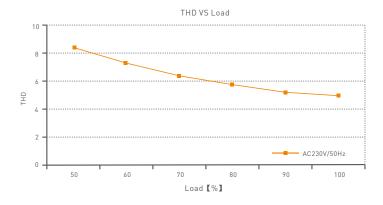


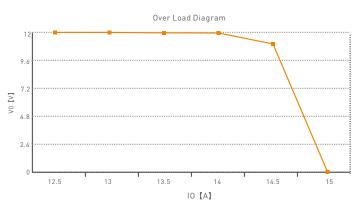
Pull the housing left and right from the bottom to remove it.

Relationship Diagrams



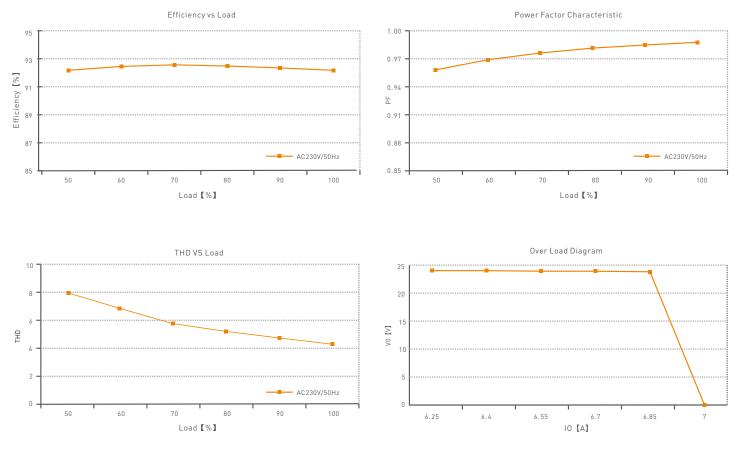






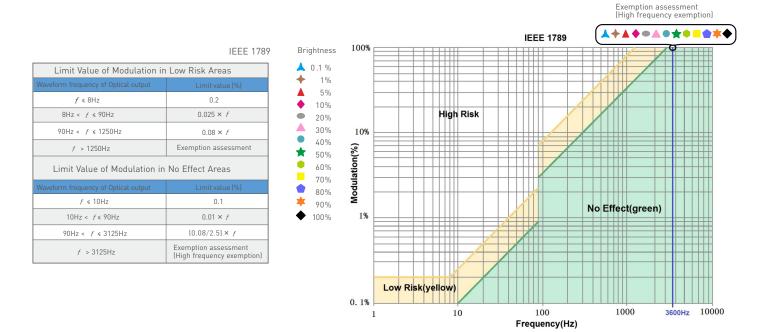
LM-150-12-G2B2





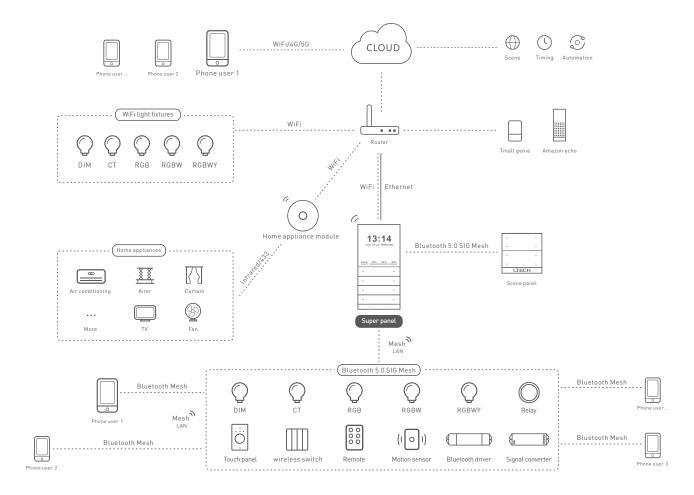
LM-150-24-G2B2

Flicker Test Table



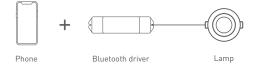


Application Diagram



Recommend Applications

1. Achieve fast dimming control.

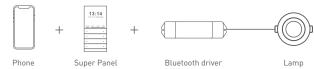


2. Both App and remote can control the driver after connecting the remote to the driver with App.



3. Both App and Super Panel can control the driver simultaneously after connecting the Super Panel 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.



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

Other Instructions

If the driver works with a remote, gateway , intelligent wireless switch or other items, please refer to related manuals.



App Operating Instructions

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.











Scan and download the API

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(BLE)" 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.

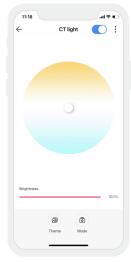


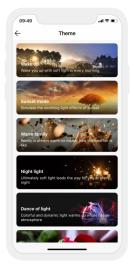


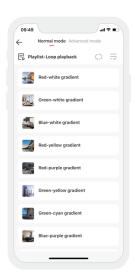


3. Control interface settings

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. Switch to "Light Group" menu and click "+" icon in the upper right corner. Follow the prompts to rename the group and click "Next" to pick the lights you are going to group together and to save them.



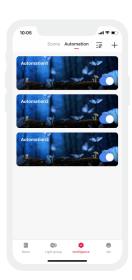


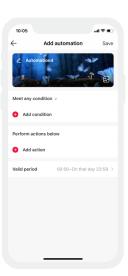


5. Advanced functions

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.

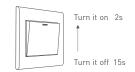






Reset The Device (Reset to factory defaults)

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.



Under the driver being power-on







FAQs

- 1. What should I do if I fail to add the device?
 - 1.1 Please make sure the device is powered on normally and is in the activated mode.
 - 1.2 Please make sure the device hasn't been added by any other account. If it did, please reset to factory defaults manually.
 - 1.3 The recommended distance between the mobile phone and the device is no more than 20 meters.
 - 1.4 If the device has been forced to delete, please reset to factory defaults manually and then add the device again.
- 2. What should I do if the device disconnects from the network?
 - 2.1 Please make sure the device is powered on normally.
 - 2.2 Please make sure the router works with network available.
 - $2.3\ \mathsf{If}\ \mathsf{you}\ \mathsf{control}\ \mathsf{the}\ \mathsf{device}\ \mathsf{remotely,}\ \mathsf{please}\ \mathsf{make}\ \mathsf{sure}\ \mathsf{your}\ \mathsf{phone}\ \mathsf{network}\ \mathsf{works}\ \mathsf{normally}.$
- 3. How to control remotely and set cloud scenes?

Remote control and cloud scenes can achieved only by working with LTECH Super Panel.

4. How to share control of your home devices?

Please go to "Me" - "Home Management" and access the home you want to share. Click "Add Member" and follow the prompts to add members into your home.

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: 2 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.