

Technical Specs

Model		LM-150-12-G2B2	LM-150-24-G2B2	
OUTPUT	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 Mesh, Push DIM		
	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 \geq 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-O/P: 3750Vac		
	Isolation 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 Class C, IEC61000-3-3		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547		
	Strobe Test Standard	IEEE 1789		
OTHERS	Dimensions	352×43×30mm(L×W×H)		
	Packing Size	355×44×33mm(L×W×H)		
	Weight(G.W.)	330g±10g		

* 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.), so that we can prepare them with special procedures.



Product Size

Uint: mm



Wiring Diagram





Push DIM/CCT



Reset switch

DIM

- On/off control: Short press.
- Stepless dimming: Long press.
- ${\ensuremath{\cdot}}$ With every other long press, the brightness level goes to the opposite direction.
- Dimming memory: Go to the brightness level adjusted previously when lights are turned on.

CCT

• Color temperature adjustment: Long press.

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With every other long press, the color temperature level goes to the opposite direction.

Bluetooth 5.0 Mesh

Push DIM

• Color temperature memory: Color temperature will be the same as previously adjusted when lights are turned on again.

Protective Housing Application Diagram

1. Tension plate





Push the tension plate down to fix the electric wire.

Flicker Test Table



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



Exemption assessment (High frequency exemption)

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

IEEE 1789 Limit Value of Modulation in Low Risk Areas $f \leq 8Hz$ $8Hz < f \le 90Hz$ 0.025 × f $90\text{Hz} < f \leq 1250\text{Hz}$ $0.08 \times f$ f > 1250Hz Exemption assessment Limit Value of Modulation in No Effect Areas f < 10Hz $0.01 \times f$ 10Hz < $f \le 90$ Hz $(0.08/2.5) \times f$ $90\text{Hz} < f \le 3125\text{Hz}$ Exemption assessment (High frequency exemption) f > 3125Hz

┼▲♦■▲◎★●■�★♦ **IEEE 1789** 100% Brightness 0.1% + 1% ▲ 5% ٠ 10% High Risk ۲ 20% 30% 10% 40% Modulation(%) * 50% ۲ 60% 70% 80% * 90% No Effect(green) ۵ 100% 1% Low Risk(yellow) 0.1% 10000 1000 10 100 3600Hz Frequency(Hz)







Relationship Diagrams



LM-150-24-G2B2





Application Diagram



Recommend Applications



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

1.1 Scan the QR code below with you mobile phone and follow the prompts to complete the app installation.



Scan and download the APP

1.2 Open the App and 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(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, go to the control interface. You'll able to achieve your desired lighting effects by color temperature adjustment and brightness changing. Click "Theme" to access eight non-editable dynamic themes provided. Click "Mode" to access "Advanced Mode" and the App offers you eight editable advanced modes.



4. Function settings

Click ":" icon in the upper right corner of control interface and go to the settings. 4.1 The intelligent driver allows you to set up your desired lighting effects after being power on. 4.2 The driver also supports soft-on dimming that makes a gradual and smooth transformation to create comfortable and healthy lighting environments.

09:52	
← Lighting status afte	er being po Save
100% Brightness	
Light's off	
Preserve last lighting statu	s 🔮
Customize brightness	

Lighting status after being power-on



Soft-on time of light

5. 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. more easily. Switch to "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.



6. Advanced functions

⇔ Scene

Scene3

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.





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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 10 times and then turn on the driver again. When the lamp is flashing (2 flashes/s), reset the device successfully.





(Repeat 10 times)

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 If you control the device remotely, please make sure your phone network works 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: 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.