

V

Intelligent Tunable White LED Driver (Constant Voltage)

DIM/CT

IEEE 1789

Dimmable: 0.1%-100%

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0.1%

- Small size and light weight. The housing is made from V0 flame retardant PC materials that SAMSUNG/COVESTR0 uses.
- The clamshell design and screwless type for strain-relief. The design of dismountable end cap allows you to adjust the length of housing depending on your needs.
- Use Zigbee protocol and Tuya application protocol with high networking capability.
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- Dimming from 0~100%, down to 0.1%.
- Color temperature range: 2700-6500K.
- Comply with the EU's ErP Directive, standby power consumption < 0.5W.
- The secure and reliable design for signal isolation. • Innovative thermal management technology intelligently protects the
- life of the LED driver. • Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor).

SEL INT Flicker-free IT CB 🐨 🖾 CE SELV Rohs 25 0 Overheat

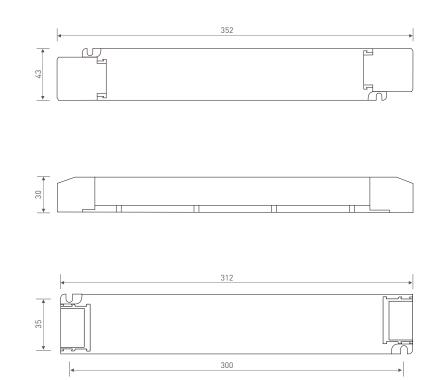
Technical Specs

Model Features Output Type Dimming Interface Output Feature Protection Grade Insulation Grade Output Voltage Output Voltage Range	LM-150-24 Constant V Zigbee Isolation				
Dimming Interface Features Output Feature Protection Grade Insulation Grade Output Voltage	Zigbee				
Features Output Feature Protection Grade Insulation Grade Output Voltage	, and the second				
Protection Grade Insulation Grade Output Voltage	Isolation				
Insulation Grade Output Voltage	IP20				
		itable for class / /	iaht fixtures)		
	24Vdc				
	24Vdc ± 0	5Vdc			
Output Current	Max. 6.25A				
Output Power	Max. 150W				
	0~150W				
OUTPUT Output Power Range					
Strobe Level	° 1	ency exemption level			
Dimming Range		0~100%, down to 0.1%			
Overload Power Limitation	≥102%				
Ripple	Switch ripple<200mV, noise<500mV				
PWM Frequency	≼3600Hz				
DC Voltage Range	200-280Vc				
AC Voltage Range	220-240Vac				
Rated Voltage	230Vac				
Frequency	50/60Hz				
Input Current	≤0.75A/23	<0.75A/230Vac			
INPUT Power Factor	PF>0.98/230Vac (at full load)				
THD	THD<6%@230Vac (at full load)				
Efficiency (typ.)	93%				
Standby power consumption	<0.5W				
Inrush Current	Cold start 45A@230Vac (Test twidth=840us tested under 50% Ipeak)				
Anti Surge	L-N: 2KV				
Leakage Current	Max. 0.5mA				
Working Temperature	ta: -20 ~ 50)°C tc: 85°C			
Working Humidity	20 ~ 95%RH, non-condensing				
ENVIRONMENT 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			
Overheat Protection			utput current if the PCB temperature ≥110°C, and recover automatically		
Overload Protection					
PROTECTION Short Circuit Protection	Shut down the output when current load≱102%, and recover automatically				
Overvoltage Protection	Enter hiccup mode if short circuit occurs, and recover automatically Shut down the output when non-load voltage>28V, and recover automatically				
Withstand Voltage	I/P-0/P: 3				
Isolation Resistance		190Vac ΙΟΜΩ/500VDC/25°C/70%			
Isolation Resistance	CCC	China	GB19510.1, GB19510.14		
	TUV	Germany			
		,	EN61347-1, EN61347-2-13, EN62493		
	CB	CB member states	IEC61347-1, IEC61347-2-13		
Safety Standards	CE	European Union	EN61347-1, EN61347-2-13, EN62384, EN61547		
	KC	Korea	KC61347-1, KC61347-2-13		
SAFETY	EAC	Russia	IEC61347-1, IEC61347-2-13		
& 	RCM	Australia	AS61347-1, AS61347-2-13		
EMC	EMEC	Europe	EN61347-1, EN61347-2-13, EN62384		
	CCC	China	GB/T17743, GB17625.1		
	CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547		
EMC Emission	KC	Korea	KN15, KN61547		
	EAC	Russia	IEC62493, IEC61547, EH55015		
	RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61547		
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547				
Strobe Test Standard	IEEE 1789				
Life Time	50000 hour	'S			
OTHERS Warranty	5 years				

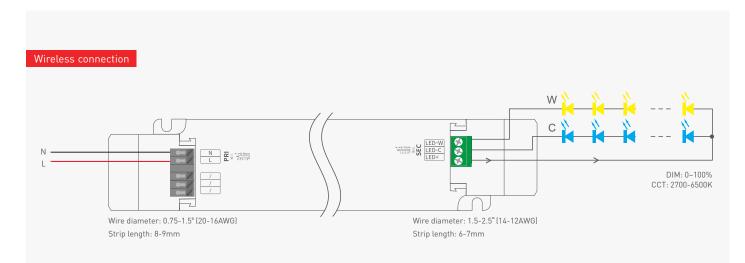


Product Size





Wiring Diagram



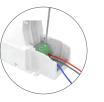


Protective Housing Application Diagram

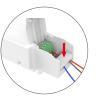
Tension plate



1. Pry up the protecting housing in the side plate position with a tool.



2. Connect to electrical wires with a screwdriver as wiring diagram shows.



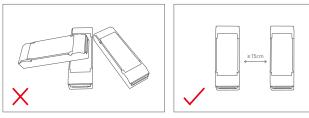
3. Press down the tension plate to fix the the electrical wires, then close the protective housing.

Remove the protective housing

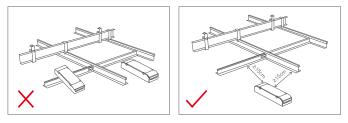


Pull the housing left and right from the bottom to remove it.

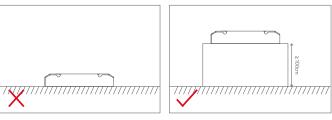
Installation Precautions



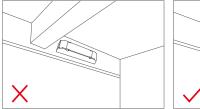
Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



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 ${\geqslant}15 \text{cm}$ so as to avoid signal interference.



Please do not place the products on the floor. The distance between the product and the floor should be ≥100cm so as to avoid signal interference.

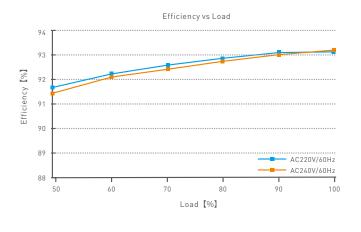


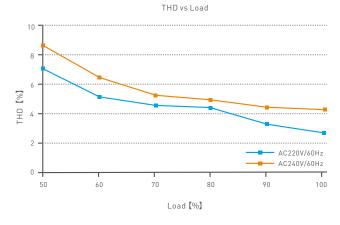


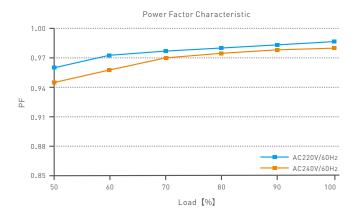
Please do not install the products on beams or near the corners. The distance between the product and the beam or the corner should be ${>}15 \text{cm}$ so as to avoid signal interference.

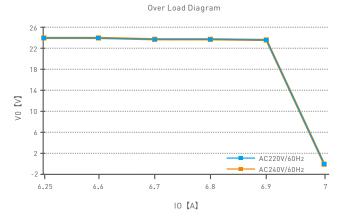


Relationship Diagrams





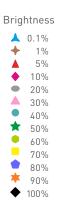


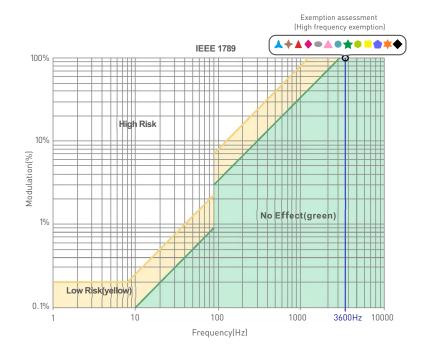


Flicker Test Table

	IEEE 1789			
Limit Value of Modulation in Low Risk Areas				
Waveform frequency of optical output (f) Limit value (%)				
f ≼ 8Hz	0.2			
8Hz < f ≤ 90Hz	0.025 × f			
90Hz < f ≤ 1250Hz	0.08 × f			
f > 1250Hz	Exemption assessment			
Limit Value of Modulation in No Effect Areas				
	Limit value (%)			
f ≼ 10Hz	0.1			
10Hz < f ≼ 90Hz	0.01 × f			
90Hz < f ≼ 3125Hz	(0.08/2.5) × f			
f > 3125Hz	Exemption assessment (High frequency exemption)			

Marks in the right chart are tested results of different current levels The output frequency is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.







App Operating Instructions

1. Register an account

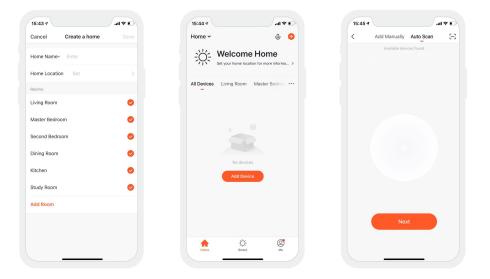
Tuya Smart App is compatible with iOS and Android systems. Scan the QR code below with you mobile phone and follow the prompts to complete the app installation. After installation being completed, you can log in or register an account.





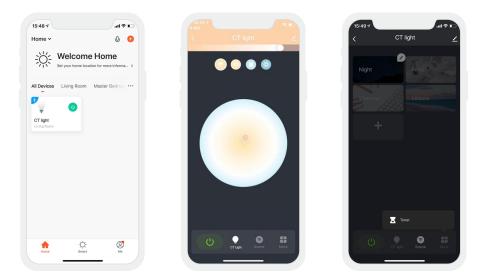
2. Paring instructions

A new user clicks "Me" \rightarrow "Home Management" \rightarrow "Create a Home", give a name to your home and confirm your home location, Then click "My Home" to add devices. After you enable appropriate permissions, click "+" icon \rightarrow "Auto Scan" and the available Bluetooth/Wi-Fi/Zigbee/wired devices will be automatically found. Follow the prompts to add the device. (Please ensure that the device is ready for network connection).



3. Lighting control settings

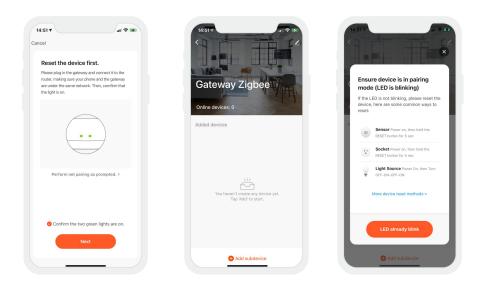
After paring up your device, click the device you add and adjust to your desired lighting status by changing brightness and color temperature. In "Settings", there are also lighting alarm clock and countdown functions (Tuya Zigbee Gateway needs to be added).





4. Remote control and automation

4.1 Remote control: Follow the prompts to add the Tuya Zigbee Gateway and go to the gateway interface after you added it. Click "Add Subdevice" and add the devices to the gateway ,then you're able to remotely control the devices.



4.2 Automation settings: You can remotely control the light fixtures through "Automation" in "Smart" interface. Set trigger conditions like weather, location, timing and other device status to trigger the predefined lighting effects and achieve the lighting automation.

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~	U 🔂	< Create Smart	Home 🗸
un Automation		•	Tap-to-Run Automation
		Set a condition Set up task	If Schedule:09:00 10/25," CT light" ON/OFF:ON 1 tasks
		🔱 Launch Tap-to-Run >	
		🔅 When weather changes >	
utomatically accordin he weather, device st	ng to conditions such atus, and time.	• When location changes	
		Schedule >	
		🔶 When device status changes >	
- Smart	Ø. Me		Home Smart

Reset The Device (Reset to factory defaults)

When the driver is power-on, turn it off and after 15s 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
	Turn it off	15s

Under the driver being power-on

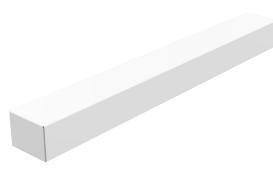
Turn it off –	15s	Turn it on —	2s	
	(Rep	eat 5 times)		



Packaging Specifications

Model	LM-150-24-G2Z2
Carton Dimensions	370×340×93mm(L×W×H)
Quantity	10 PCS/Layer; 2 Layers/Carton; 20 PCS/Carton
Weight	0.43 kg/PC; 9.4 kg/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.

LTECH

Tuya Zigbee

Attentions

- This product must be installed and adjusted by a qualified professional.
- This product is 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 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

Versi	n Updated Time	Update Content	Updated by
AO	2023.01.14	Original version	Liu Weili