

Intelligent LED Driver (Constant Voltage)

- Small size and light weight. The housing is made from V0 flame retardant PC materials that SAMSUNG/COVESTRO uses.
- $\bullet\,$ 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.
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- Dimming from 0~100%, down to 0.1%.
- Support Leading edge (Triac), Trailing edge (ELV) and Push DIM.
- Innovative thermal management technology intelligently protects the power life.
- $\bullet\,$ Overheat, over voltage , overload, short circuit protection and automatic recovery.
- Suitable for indoor light applications of I/II/III type.
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor).



Flicker-Free IEEE 1789

Dimmable: 0.1%~100%

























Technical Specs

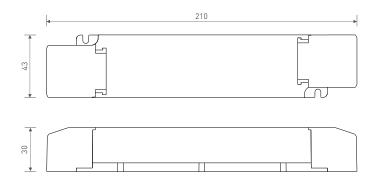
Model		LM-36-24-L1T2			LM-36-12-L1T2		
ОИТРИТ	Output Voltage	24Vdc			12Vdc		
	Output Voltage Range	24Vdc±0.5Vdc			12Vdc±0.5Vdc		
	Output Current	Max. 1.5A			Max. 3A		
	Output Power	Max. 36W					
	Output Power Range	0-36W					
	Strobe Level	High frequency exemption level					
	Dimming Range	0~100%, down to 0.1%					
	Overload Power Limitation	≥102%					
	Ripple	<200mV					
	PWM Frequency	3600Hz					
INPUT	Dimming Interface	Triac/ELV, Push DIM					
	Input Voltage	108-132Vac					
	Frequency	50/60Hz					
	Input Current	≤0.4A/120Vac					
	Power Factor	PF>0.98/120Vac (at full load)					
	THD	THD<6%/120Vac (at full load)					
	Efficiency (typ.)	84%					
	Standby Power Loss	<0.5W					
	Inrush Current	Cold start 25A(Test twidth=204us under 50% peak)@120Vac					
	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(-20-50°C)					
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively					
	Overheat Protection	Intelligently adjust or turn off the output current if the PCB temperature >110°C, and recover automatically					
PROTECTION	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					
	Overvoltage Protection		own the output when atically	non-load voltage≥26V, and recover	Shut down the output when non-load voltage≥13V, and recover automatically		
	Withstand Voltage	I/P-0/P: 3750Vac					
	Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH					
	Safety Standards	UL America UL8750					
SAFETY		CUL	CUL Canada CSA C22.2 NO. 250. 13				
&		CE	CE European Union EN61347-1, EN61347-2-13, EN62384				
EMC	EMC Emission	UL America FCC part 15					
		CE European Union EN55015, EN61000-3-2, EN61000-3-3, EN61547					
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547					
	Strobe Test Standard	IEEE 1	IEEE 1789				
OTHERS	Gross Weight(G.W)	210g±	210g±10g				
	Dimensions	210×43	210×43×30mm(L×W×H)				
	Package Size	213×44×33mm(L×W×H)					
	Carton Size	440x218x235mm(L×W×H) 60pcs/ctn 13.4kg±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-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.



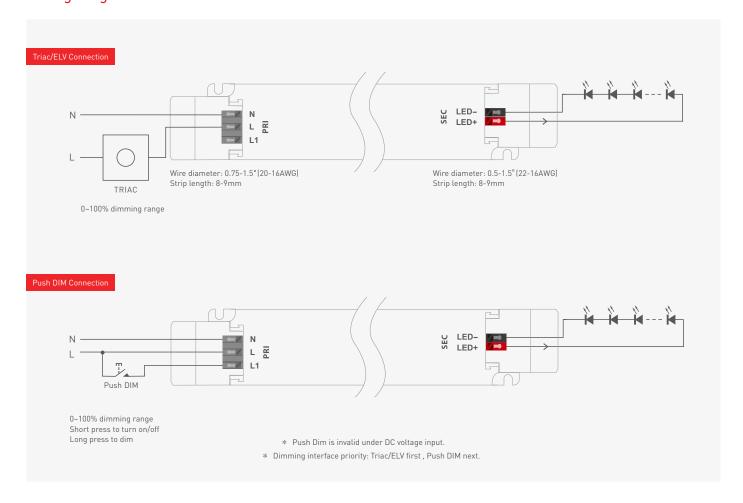
Product Size

Unit: mm





Wiring Diagram



Push DIM



Reset switch

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the brightness level goes to the opposite direction.
- Dimming memory: Dimming memory: Short press the PUSH DIM button, the brightness will go to the the previously adjusted level.

Power on again after power cut, the output brightness will be adjusted in accordance with the input voltage of drivers.

LTECH

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

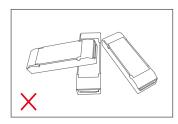


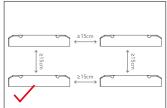




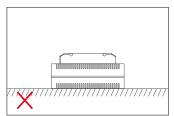
Pull the housing left and right from the bottom to remove it.

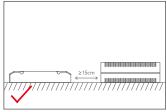
Installation Precautions





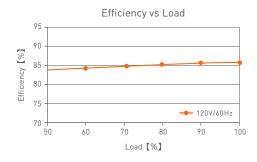
Please do not stack the products. The distance between two products should be \geqslant 15cm so as not to affect heat dissipation and the lifespan of the products.

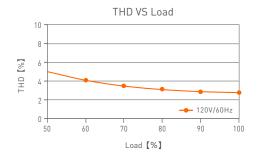


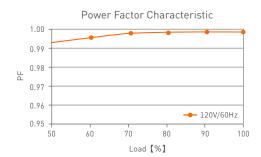


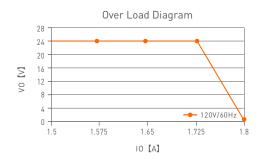
Please not place the products on LED drivers. The distance between the product and the driver should be \geqslant 15cm so as not to affect heat dissipation and shorten the lifespan of the products.

Relationship Diagrams





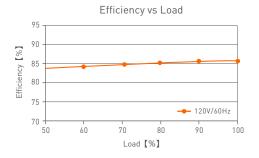


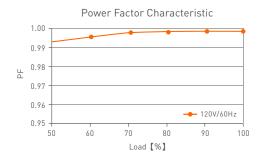


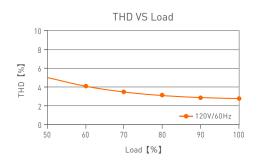
LM-36-24-L1T2

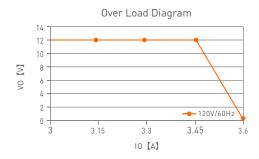
Exemption assessment











LM-36-12-L1T2

Flicker Test Table

Limit Value of Modulation in Low Risk Areas

Waveform frequency of Optical output (f) $f \in 8Hz$ 0.2 $8Hz < f \in 90Hz$ $0.025 \times f$ $90Hz < f \in 1250Hz$ $0.08 \times f$ f > 1250HzExemption assessment

Limit Value of Modulation in No Effect Areas

Waveform frequency of Optical output (f) $f \in 10Hz$ $10Hz < f \in 90Hz$ $90Hz < f \in 3125Hz$ $0.08/2.5] \times f$ Exemption assessment 0.1 0.1 $0.08/2.5] \times f$ Exemption assessment $0.08/2.5] \times f$ Exemption assessment

Brightness

▲ 0.1%

→ 1%

▲ 5%

→ 10%

● 20%

▲ 30%

● 40%

★ 50%

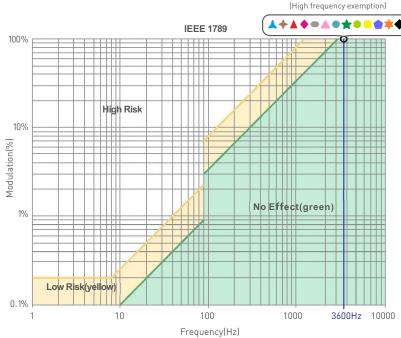
● 60%

■ 70%

■ 80%

▼ 90%

→ 100%



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.



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.
- $2. \ \ \mathsf{LTECH} \ \mathsf{has} \ \mathsf{the} \ \mathsf{right} \ \mathsf{to} \ \mathsf{amend} \ \mathsf{or} \ \mathsf{adjust} \ \mathsf{the} \ \mathsf{terms} \ \mathsf{of} \ \mathsf{this} \ \mathsf{warranty,} \ \mathsf{and} \ \mathsf{release} \ \mathsf{in} \ \mathsf{written} \ \mathsf{form} \ \mathsf{shall} \ \mathsf{prevail}.$



Update Log

Version	Updated Time	Update Content	Updated by
Α0	2021.06.18	Original version	Liu Weili
A1	2021.12.10	Update product silk screen	Liu Weili
A2	2022.04.29	Update protective housing application diagram	Liu Weili