

LTECH

LED Intelligent Driver (Constant Voltage)

- Small size and light weight. Adopt SAMSUNG/COVESTRO V0 flame resistant polycarbonate protective housings.
- The design of dismountable end cap allows you to adjust the length of housing depending on your needs.
- With soft-on and fade in function, visual more comfortable.
- Dimming range: 0~100%, dimming down to 0.1%.
- 0-100% flicker-free, High frequency exemption level.
- Leading edge (Triac), Trailing edge (ELV) phase-cut and Push DIM.
- The secure and reliable design for signal isolation.
- . Innovative thermal management technology intelligently protects the lifetime the driver.
- Over load / Over temp. / Short circuit / Over voltage protection, recover automatically.
- \bullet Suitable for internal lights application for $\mathbb{I}/\mathbb{I}/\mathbb{I}\mathbb{I}$.
- Up to 50000-hour life time.
- 5 year warranty (Rubycon capacitor).

Flicker-free IEEE 1789 Achieve high frequency exemption level.

Dimmable: 0.1%-100%

































Technical Specs

Model		LM-36-24-G1T2			LM-36-12-G1T2		
	Output voltage	24Vdc			12Vdc		
OUTPUT	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%, dimming down to 0.1%					
	Overload power limitation	≥102%					
	Ripple & Noise	≤200mV					
	PWM frequency	3600Hz					
INPUT	Dimming interface	Leading edge (Triac), Trailing edge (ELV) phase-cut and Push DIM.					
	Input voltage	220-240Vac					
	Frequency	50/60Hz					
	Input current	≤0.2A/230Vac					
	Power factor	PF>0.95/230Vac , at full load					
	THD	230Vac@THD<10%, at full load					
	Efficiency (typ.)	85% 84%					
	Inrush current(typ.)	Cold start 30A at 230Vac					
	Control surge capability	L-N: 2kV					
	Leakage current	Max. 0.	Max. 0.5mA				
	Working temperature	ta: -20 -	- 50°C tc: 90°C				
	Working humidity	20 ~ 95%RH, non-condensing					
ENVIRONMENT	Storage Temperature humidity	-40°C ~ 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 .					
	Over-heat protection	Intelligently adjust or turn off the output current if the PCB temperature ≥110°C, and recover automatically .					
	Over load protection	Shut down the output when current load > 102%, and recover automatically.					
PROTECTION	Short circuit protection	Shut down automatically if short circuit occurs, and recover automatically .					
	Over voltage protection	Shut down the output when non-load voltage≥26V, re-power on to recover after fault condition is removed. Shut down the output when non-load voltage≥13V, re-power on to recover after fault condition is removed.					
	Withstand voltage	I/P-0/P: 3750Vac					
	Isolation resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH					
	Safety Standards	CCC	China	GB19510.1, GB19510.14			
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493			
		CE	European Union	EN61347-1, EN61347-2-13, EN62384			
SAFETY & EMC		KC	Korea	KC61347-1, KC61347-2-13			
		RCM	Australia	AS61347-1, AS61347-2-13			
		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384			
		СВ	CB member states	IEC61347-1, IEC61347-2-13			
	EMC Emission	EAC	Russia	IEC61347-1, IEC61347-2-13			
		CCC	China	GB/T17743, GB17625.1			
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN	61547		
		KC	Korea	KN15, KN61547			
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61547			
		EAC	Russia	IEC62493, IEC61547, EH55015			
	EMC immunity		EN61000-4-2,3,4,5,6,8,11, EN61547				
	Strobe test standard	IEEE 1789					
OTHERS	Weight(G.W.)	210g±10g					
	Dimension	210×43×30mm(L×W×H)					
	Package Size	213×44×33mm(L×W×H)					
	-			Opes/etn 9ka+5%/etn			
≮ The driver is s	Carton Size			Opcs/ctn 9kg±5%/ctn	It-in constant, current IC current-limiting LED fixtures, the driver will activate the overlo		

^{*} 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.

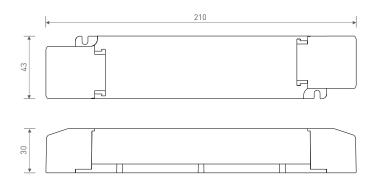


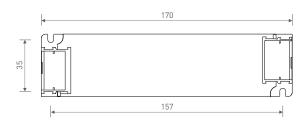


Dimensions

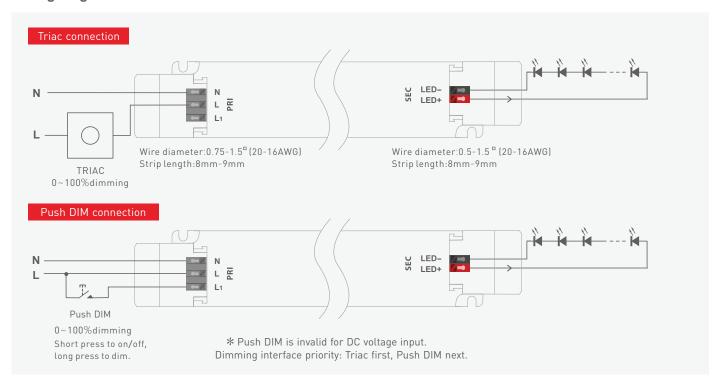
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Unit: mm





Wiring Diagram



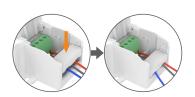
Push Dimming



- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the brightness goes to the opposite direction.
- Dimming memory: The lights will return to its previous brightness value when short press on PUSH DIM button. Power on again after power cut, the output brightness is subjected to the input voltage of drivers.

Protective Housing Application Diagram

Tension plate



Push the tension plate down to fix the electric wires.



Push the side plate outwards and remove the tension plate by prying it up with a tool at the same time.

Remove the protective housing

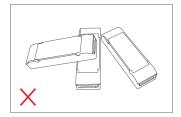


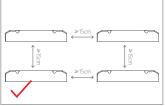
Pull the bottom left and right from the bottom to remove it.

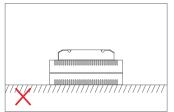




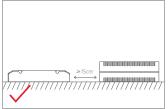
Installation Precautions







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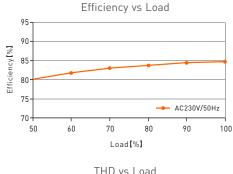


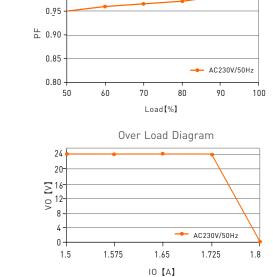
Please do not stack the products. The distance between two products should be \geqslant 15cm so as not to affect heat dissipation and the lifespan of the products.

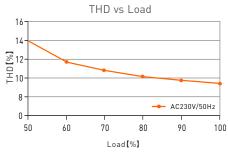
Please not place the products on LED drivers. The distance between the product and the driver should be >15cm so as not to affect heat dissipation and shorten the lifespan of the products.

Power Factor Characteristic

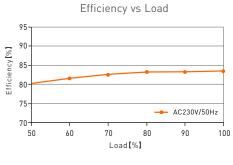
Relationship Diagrams



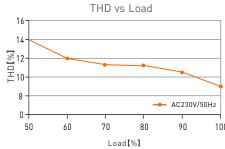


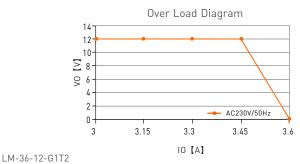












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Frequency(Hz)

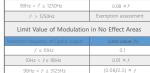
Modulation Area

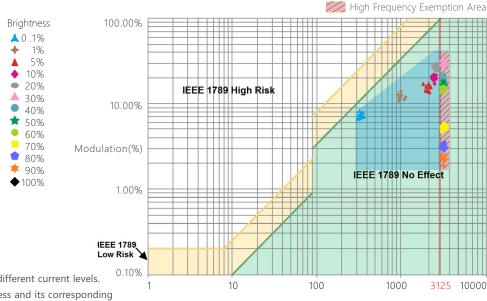




Flicker Test Table







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. 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
Α0	2021.04.12	Original version.	Xu Shujun
A1	2021.12.27	Updated the silkscreen on the product.	Xu Shujun