

Product Acknowledgement

Customer Name:	
Product Name:	Intelligent LED Driver(Constant Voltage)
Froduct Name.	intelligent LED Driver(Constant Voltage)
Product Model:	LM-36-12-G1T2、LM-36-24-G1T2
Product Specifications:	
Product NO.:	

Confirmed by LTECH

Drafted by	Verified by	Approved by
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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 voltage range	24Vdc ±	0.5Vdc		12Vdc ± 0.5Vdc	
	Output current	Max. 1.5	A		Max. 3A	
	Output power	Max. 36W				
OUTPUT	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				
	Dimming interface	Leading edge (Triac), Trailing edge (ELV) phase-cut and Push DIM.				
	Input voltage	220-240Vac				
	Frequency	50/60Hz				
	Input current	50/80HZ ≤0.2A/230Vac				
	Power factor		/230Vac , at full load			
INPUT	THD		THD < 10%, at full loa	ad		
	Efficiency (typ.)	85%			84%	
	Inrush current(typ.)		rt 30A at 230Vac			
	Control surge capability	L-N: 2k				
	Leakage current	Max. 0.				
	Working temperature		- 50°C tc: 90°C			
	Working humidity		6RH, non-condensing			
ENVIRONMENT	Storage Temperature humidity		20 ~ 95%RH, non-condensing -40°C ~ 80°C, 10~95%RH			
	Temperature coefficient	±0.03%/°C[0-50°C]				
	Vibration			72 min for X, Y and Z axes respectively .		
	Over-heat protection			the output current if the PCB temperature ≥1	10°C and recover automatically	
	Over load protection			urrent load≥102%, and recover automatically	· · · · · · · · · · · · · · · · · · ·	
PROTECTION	Short circuit protection				•	
	Over voltage protection	Shut dov	Shut down automatically if short circuit occurs, and recover automatically. 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-	I/P-0/P: 3750Vac			
	Isolation resistance		//P-0/P: 100MΩ/500VDC/25°C/70%RH			
		CCC	China	GB19510.1, GB19510.14		
	Safety Standards	TUV	Germany	EN61347-1, EN61347-2-13, EN62493		
		CE	European Union	EN61347-1, EN61347-2-13, EN62384		
		KC	Korea	KC61347-1, KC61347-2-13		
		RCM	Australia	AS61347-1, AS61347-2-13		
SAFETY &		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384		
		CB	CB member states	IEC61347-1, IEC61347-2-13		
EMC		EAC	Russia	IEC61347-1, IEC61347-2-13		
		CCC	China	GB/T17743, GB17625.1		
	EMC Emission	CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN	61547	
		KC	Korea	KN15, KN61547	01047	
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN	41547	
		EAC	Russia	IEC62493, IEC61547, EH55015	01347	
	EMC immunity			<u> </u>		
	Strobe test standard	EN61000-4-2,3,4,5,6,8,11, EN61547 IEEE 1789				
	Weight(G.W.)					
	Dimension	210g±10				
OTHERS		210×43×30mm(L×W×H) 213×44×33mm(L×W×H)				
	Package Size			Open (ata 12 / kg E9/ /ct-		
	Carton Size			Opcs/ctn 13.4kg±5%/ctn n current will be dozens of times increased if connecting buil		

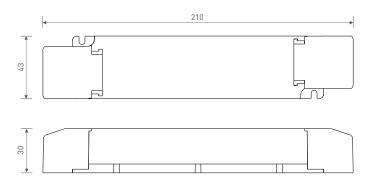
^{*} The driver is suitable for connecting resistor current-limiting LED fixture [e.g. LED strip]. The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When 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.





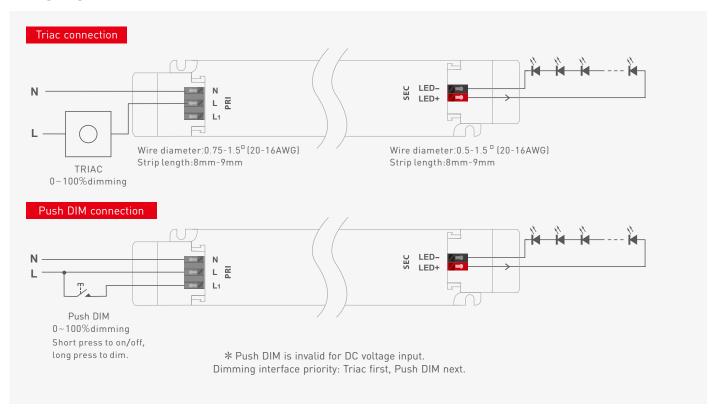
Dimensions

Unit: mm





Wiring diagram



Push Dimming



Reset switch

- 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.

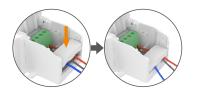
 Power on again after power cut, the output brightness is subjected to the input voltage of drivers.



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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

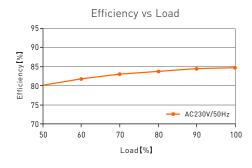


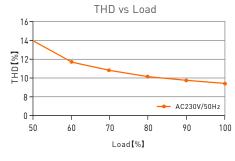


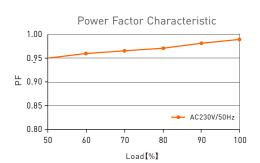


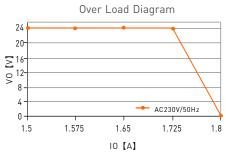
Pull the bottom left and right from the bottom to remove it.

Relationship diagrams

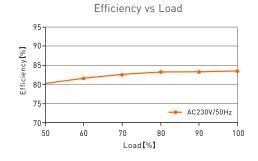


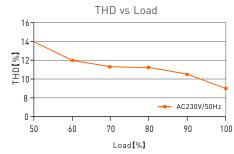


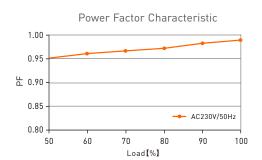


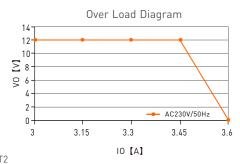


LM-36-24-G1T2



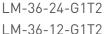






LM-36-12-G1T2

Modulation Area



Frequency(Hz)

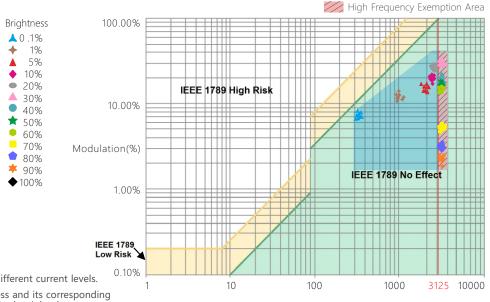


Flicker Test Table

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Limit Value of Modulation in Low Risk Areas				
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 of Modulation	in No Effect Areas			
Waveform frequency of Optical output	Limit value (%)			
Waveform frequency of Optical output $f \le 10$ Hz	Limit value (%) 0.1			



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

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