

Product Acknowledgement

Customer Name:	
Product Name:	Intelligent I ED Driver (Constant Voltage)
Product Name.	Intelligent LED Driver (Constant Voltage)
Product Model:	LM-150-24-G1T2、LM-150-12-G1T2
Product Specifications:	
Product NO.:	

Confirmed by LTECH

Drafted by	Verified by	Approved by
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Confirmed by Customer

Checked by	Verified by	Approved by



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Intelligent LED Driver (Constant Voltage)

- Small size and light weight. Adopt SAMSUNG/COVESTRO V0 flame resistant polycarbonate protective housings.
- 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.
- The whole dimming process is flicker-free with high frequency exemption level.
- Dimming from 0~100%, down to 0.1%.
- Support Leading edge (Triac), Trailing edge (ELV) and Push DIM.
- The secure and reliable design for signal isolation.
- Innovative thermal management technology intelligently protects the power life.
- 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 Achieve the exemption level



















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Technical Specs

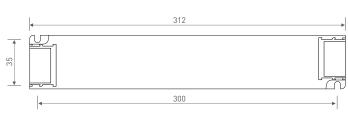
Model		I M 15	D-24-G1T2		LM-150-12-G1T2
	Output Voltage	24Vdc	J-24-0112		12Vdc
	Output Voltage Range		± 0.5Vdc		12Vdc ± 0.5Vdc
-	Output Current	Max. 6			Max. 12.5A
H	Output Power	Max. 1			Mdx. 12.3A
l	Output Power Range	0~150V			
OUTPUT	Strobe Level			rol .	
l F			equency exemption lev	/et	
l F	Dimming Range		%, down to 0.1%		
I -	Overload Power Limitation	≥102%			
I ⊦	Ripple	<200mV			
-	PWM frequency	3600Hz			
l F	Dimming Interface	Triac/ELV, Push DIM			
l F	Input Voltage	220-240Vac			
l F	Frequency	50/60Hz			
l -	Input Current	≤0.75A/230Vac			
INPUT	Power Factor		8/230Vac (at full load)		
	THD		6%@230Vac (atfulll	oad)	
I - F	Efficiency (typ.)	91%			90%
	Inrush Current		art 45A/230Vac		
	Anti Surge	L-N: 2KV			
	Leakage Current	Max. 0			
	Working Temperature		~ 50°C tc: 90°C		
	Working Humidity	20 ~ 95	%RH, non-condensing	9	
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	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	Shut down the output when non-load voltage > 28V, and recover automatically Shut down the output when non-load voltage > 16V, and recover automatically			
	Withstand Voltage	I/P-0/P: 3750Vac			
	Isolation Resistance	I/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	
		СВ	CB member states	IEC61347-1, IEC61347-2-13	
		CE	European Union	EN61347-1, EN61347-2-13, EN62384, EN6154	7
		KC	Korea	KC61347-1, KC61347-2-13	
SAFETY		EAC	Russia	IEC61347-1, IEC61347-2-13	
&		RCM	Australia	AS 61347-1, AS 61347-2-13	
EMC		EMEC	Europe	EN61347-1, EN61347-2-13, EN62384	
		CCC	China	GB/T17743, GB17625.1	
	EMC Emission	CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN615	47
		KC	Korea	KN15, KN61547	
		EAC	Russia	IEC62493, IEC61547, EH55015	
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN615	47
	EMC Immunity		00-4-2,3,4,5,6,8,11, E		
l -	Strobe Test Standard	IEEE 1789			
—	Gross weight(G.W)	430g±10g			
	Dimensions	352×43×30mm(L×W×H)			
IOTHERS	Package size	355×44×33mm(L×W×H)			
I	Carton Size	370×340×93mm[L×W×H] 20pcs/ctn 9.4kq±5%/ctn			
$\overline{}$		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			



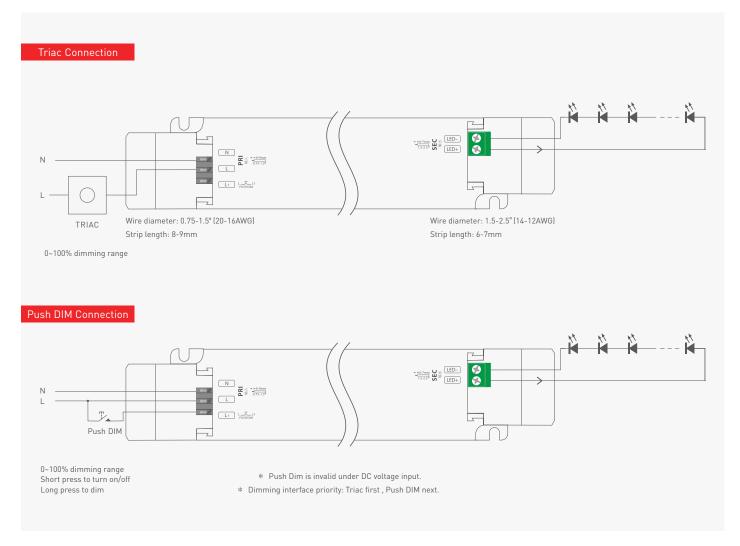
Product Size

Unit: mm





Wiring Diagram



Push DIM



- On/off control: Short press.
- Stepless dimming: Long press.
- \bullet With every other long press, the brightness goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning on again.

Reset switch

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Protective Housing Application Diagram

Tension plate





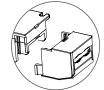


Push the tension plate down to fix the electric wires. Push the side plate outwards and remove the tension plate by prying it up with a tool at the same time.

Remove the protective housing

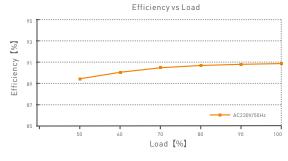


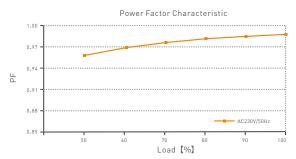


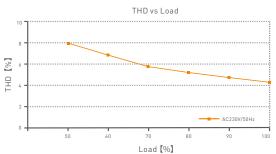


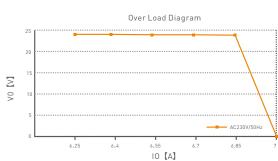
Pull the housing left and right from the bottom to remove it.

Relationship Diagrams

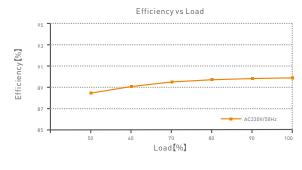


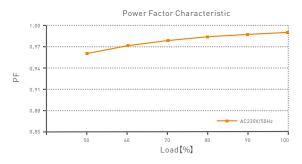


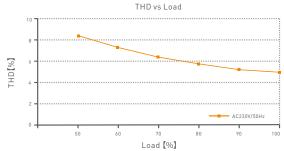


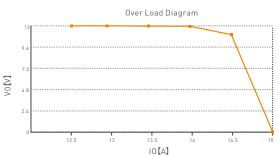


LM-150-24-G1T2









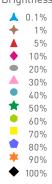


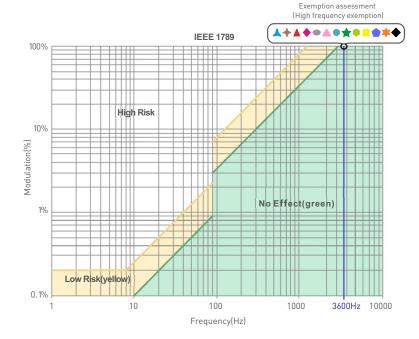
Flicker Test Table

IEEE 1789

Limit Value of Modulation in Low Risk Areas				
Waveform frequency of Optical output (f)				
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				
Waveform frequency of Optical output (f)				
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)			

Brightness





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

Update Log

Version	Updated Time	Update Content	Updated by
A0	2021.04.27	Original version	Liu Weili