

Product Acknowledgement

Customer Name:	
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
Liu Weili	Tan Lianle	Luo Shengdong

Confirmed by Customer

Checked by	Verified by	Approved by



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.

















Dimmable: 0.1%-100%



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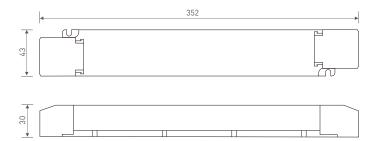
Technical Specs

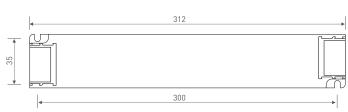
Model	I	1 1 4 4 5	0.0/.0170		LM 150 12 C1T2
Model	0		0-24-G1T2		LM-150-12-G1T2
l ŀ	Output Voltage	24Vdc	1 0 51/1		12Vdc
l -	Output Voltage Range		± 0.5Vdc		12Vdc ± 0.5Vdc
l ŀ	Output Current	Max. 6			Max. 12.5A
l ŀ	Output Power	Max. 1			
OUTPUT	Output Power Range	0~150V			
l -	Strobe Level	High fr	equency exemption lev	/el	
	Dimming Range		%, down to 0.1%		
l 1	Overload Power Limitation	≥102%			
l 1	Ripple	<200mV			
	PWM frequency	3600Hz			
	Dimming Interface	Triac/ELV, Push DIM			
	Input Voltage	220-240Vac			
	Frequency	50/60Hz			
	Input Current	≤0.75A/230Vac			
INPUT	Power Factor	PF>0.9	8/230Vac (at full load)		
""	THD	THD<	6%@230Vac (at full l	oad)	
	Efficiency (typ.)	91%			90%
	Inrush Current	Cold st	tart 45A/230Vac		
	Anti Surge	L-N: 2KV			
	Leakage Current	Max. 0	I.5mA		
	Working Temperature	ta: -20	~ 50°C tc: 90°C		
	Working Humidity	20 ~ 95	5%RH, non-condensing	9	
ENVIRONMENT	Storage Temperature, Humidity	-40 ~ 8	0°C, 10~95%RH		
	Temperature Coefficient	±0.03%	5/°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			
	Overload Protection	Shut down the output when current load>102%, and recover automatically			
PROTECTION:	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically			
l +	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-O/P: 3750Vac			
	Isolation Resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH			
	isotation resistance	CCC	China	GB19510.1, GB19510.14	
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493	
		CB	CB member states		
		CE	European Union	IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13, EN62384, EN6154	7
		KC	Korea	KC61347-1, KC61347-2-13	'
		EAC	Russia	IEC61347-1, IEC61347-2-13	
SAFETY &					
EMC		RCM	Australia	AS 61347-1, AS 61347-2-13	
		EMEC	Europe	EN61347-1, EN61347-2-13, EN62384	
		CCC	China	GB/T17743, GB17625.1	17.
	EMC Emission Ki	CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN615	4/
		KC	Korea	KN15, KN61547	
		EAC	Russia	IEC62493, IEC61547, EH55015	
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN615	47
l +	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547			
-	Strobe Test Standard	IEEE 1789			
l 1	Gross weight(G.W)	430g±10g			
IOTHERS	Dimensions	352×43×30mm(L×W×H)			
	Package size	355×44×33mm(L×W×H)			
ıl	Carton Size	370×340×93mm(L×W×H) 20pcs/ctn 9.4kg±5%/ctn ent-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			



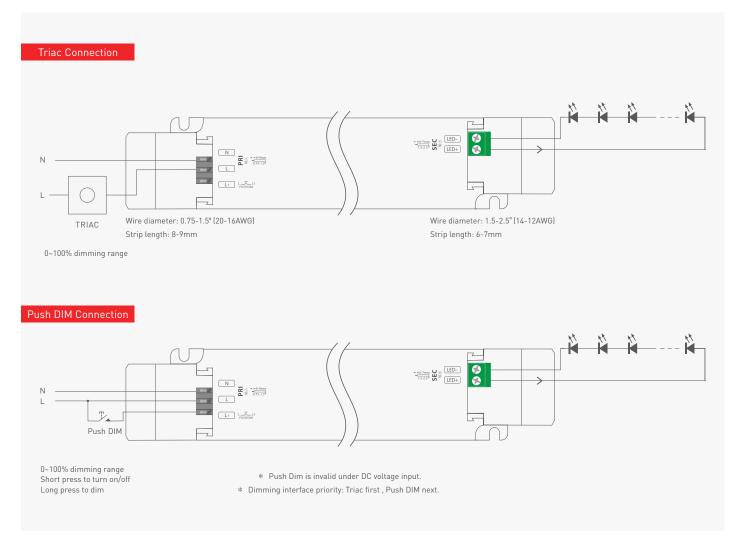
Product Size

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

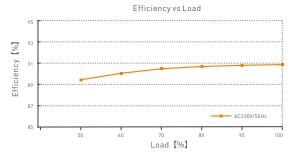


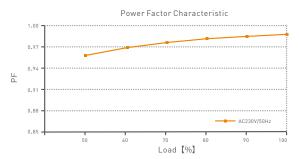


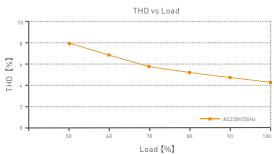


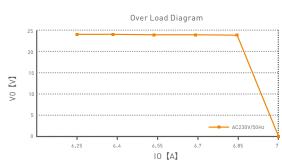
Pull the housing left and right from the bottom to remove it.

Relationship Diagrams

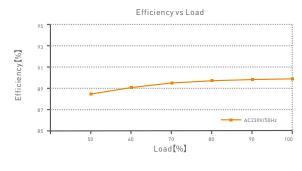


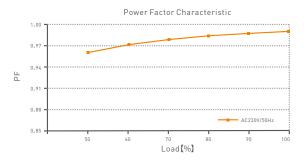


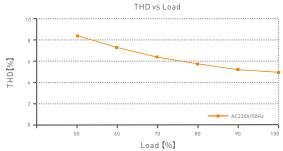


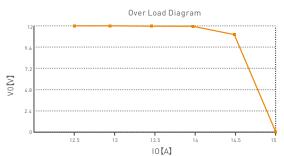


LM-150-24-G1T2







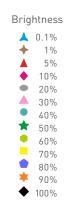


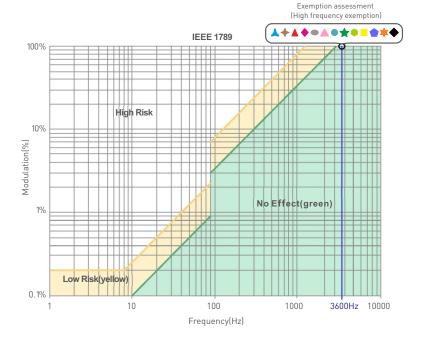


Flicker Test Table

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)			





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
Α0	2021.04.27	Original version	Liu Weili