

#### Intelligent LED Driver (Constant Voltage)

- The housing is made from V0 flame retardant PC materials that SAMSUNG/COVESTRO uses.
- 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.
- 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 life of the LED driver.
- Overheat, over voltage , overload, short circuit protection and automatic recovery.
- $\bullet$  Suitable for Class I/II/III indoor light fixtures.
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor).

### Flicker-Free IEEE 1789 Dimmable:



















Triac/ELV Push DIM











## Technical Specs

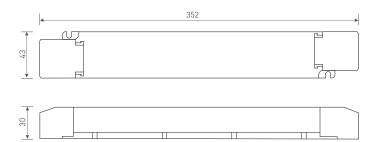
Model		LM-150	)-24-G1T2		LM-150-12-G1T2	
	Output Voltage	24Vdc			12Vdc	
	Output Voltage Range	24Vdc :	± 0.5Vdc		12Vdc ± 0.5Vdc	
	Output Current	Max. 6.25A Max. 12.5A				
	Output Power	Max. 150W				
	Output Power Range	0~150W				
OUTPUT	Strobe Level	High frequency exemption level				
	Dimming Range	0~100%, down to 0.1%				
	Overload Power Limitation	≥102%				
	Ripple	<200mV				
	PWM frequency	3600Hz				
	Dimming Interface	Triac/ELV, Push DIM				
	Input Voltage	220-240Vac				
INPUT	Frequency	50/60Hz				
	Input Current	≤0.75A/230Vac				
	Power Factor	PF>0.98/230Vac (at full load)				
	THD	THD<6%@230Vac (at full load)				
	Efficiency (typ.)	91%	7786200746 (41741110	30)	90%	
	Inrush Current					
	Anti Surge	Cold start 45A/230Vac L-N: 2KV				
	Leakage Current					
	-	Max. 0.5mA  ta: -20 ~ 50°C tc: 90°C				
	Working Temperature					
ENVIRONMENT	Working Humidity	20 ~ 95%RH, non-condensing				
ENVIRUNMENT	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-O/P: 100MΩ/500VDC/25°C/70%RH				
	Safety Standards	CCC	China	GB19510.1, GB19510.14		
		TUV	Germany CB member states	EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13		
		CE	European Union	EN61347-1, EN61347-2-13, EN62384, EN6154	47	
		KC	Korea	KC61347-1, KC61347-2-13	••	
		EAC	Russia	IEC61347-1, IEC61347-2-13		
SAFETY		RCM	Australia	AS 61347-1, AS 61347-2-13		
&		EMEC	Europe	EN61347-1, EN61347-2-13, EN62384		
EMC		UKCA	Britain	BS EN 61347-2-13:2014+A1:2017, BS EN 613	347-1:2015+A1:2021	
	EMC Emission	CCC	China	GB/T17743, GB17625.1		
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61	547	
		KC EAC	Korea	KN15, KN61547 IEC62493, IEC61547, EH55015		
		RCM	Russia Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61	5.67	
		UKCA	Britain		47:2009, BS EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A1:2019	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547				
	Strobe Test Standard	IEEE 1789				
	Gross weight(G.W)	430g±10g				
	Dimensions	352×43×30mm(L×W×H)				
OTHERS		355×44×33mm(L×W×H)				
OTTILING	Package size	33:1×44	×33MML×W×HI			

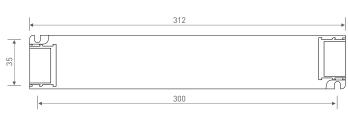
overloaded protection (hiscups flickering). When you order, please remark controlling the constant current LED fixture (e.g., MR16 and protection (hiscups flickering). When you order, please remark controlling the constant current LED strip. special procedures.
ZHUHAI LTECH TECHNOLOGY CO., LTD.



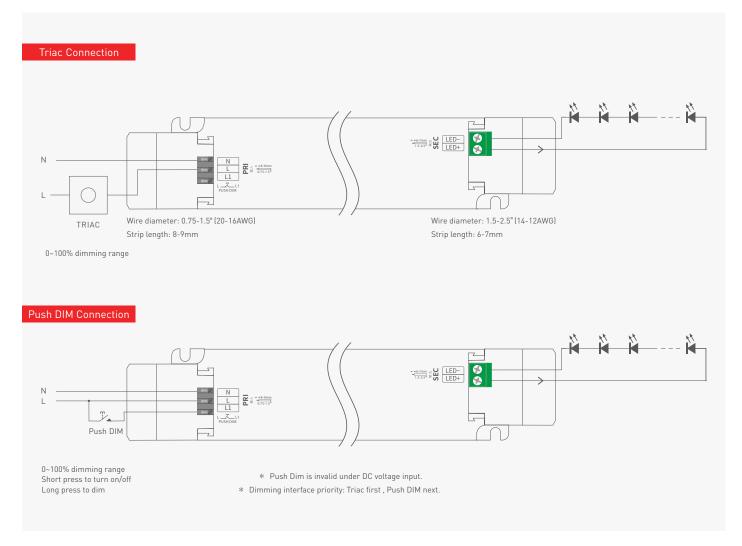
#### **Product Size**

Unit: mm





## Wiring Diagram



#### Push DIM



- 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.

Reset switch

# LTECH

## Protective Housing Application Diagram

#### Tension plate



1. Pry up the protecting housing in the side plate position with a



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

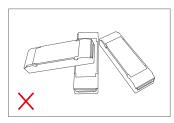


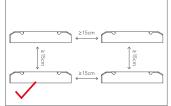




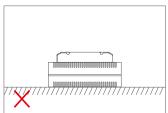
Pull the housing left and right from the bottom to remove it.

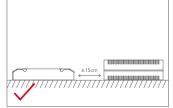
#### **Installation Precautions**





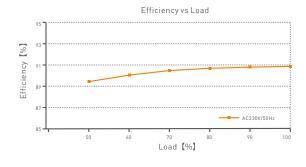
Please do not stack the products. The distance between two products should be  $\geqslant$ 15cm so as not to affect heat dissipation and the lifespan of the products.

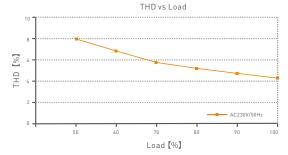


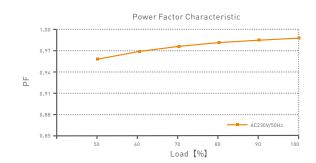


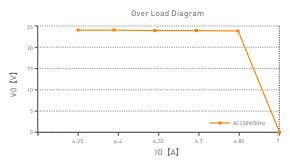
Please not place the products on LED drivers. The distance between the product and the driver should be  $\geqslant$ 15cm so as not to affect heat dissipation and shorten the lifespan of the products.

## Relationship Diagrams



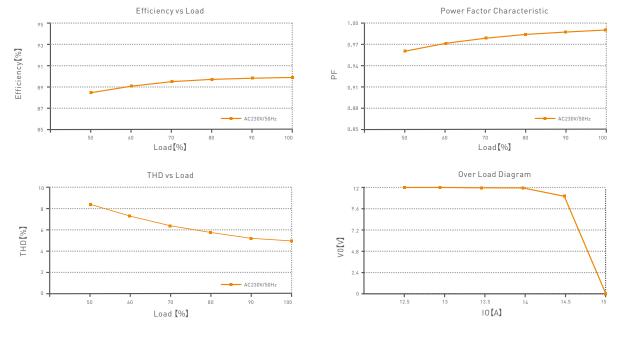






LM-150-24-G1T2





LM-150-12-G1T2

## Flicker Test Table

IEEE 1789 Brightness 0.1% Limit Value of Modulation in Low Risk Areas 1% 5% f ≤ 8Hz 10% 8Hz < f ≤ 90Hz 0.025 × f 20% 90Hz < f ≤ 1250Hz 30%  $0.08 \times f$ 40% f > 1250Hz Exemption assessment 50% Limit Value of Modulation in No Effect Areas 60% 70% 80% f ≤ 10Hz 90% 10Hz < f ≤ 90Hz 0.01 × f 100% 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. 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
A1	2021.12.10	Update the product silk screen and add installation precautions	Liu Weili