

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.
- 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











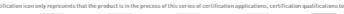


























Technical Specs

Model	I	LM 455	1-2/_C1T2		LM 150 12 C1T2		
Model	Output Voltage)-24-G1T2		LM-150-12-G1T2		
оитрит	Output Voltage	24Vdc	+ 0 F//		12Vdc		
	Output Voltage Range		± 0.5Vdc		12Vdc ± 0.5Vdc		
	Output Current	Max. 6.25A Max. 12.5A					
	Output Power	Max. 150W					
	Output Power Range	0~150W					
	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	Input Voltage	220-240Vac					
	Frequency	50/60Hz					
	Input Current	<0.75A/230Vac					
	Power Factor	PF>0.98/230Vac (at full load)					
	THD	THD<6%@230Vac (atfullload)					
	Efficiency (typ.)	91% 90%					
	Inrush Current	Cold start 45A/230Vac					
	Anti Surge	L-N: 2KV					
	Leakage Current	Max. 0.5mA					
	Working Temperature	ta: -20 ~ 50°C tc: 90°C					
	Working Humidity	20 – 95%RH, non-condensing					
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					
	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					
	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					
	Safety Standards	CCC	China	GB19510.1, GB19510.14			
		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, EN615	47		
SAFETY & EMC		KC	Когеа	KC61347-1, KC61347-2-13			
		EAC	Russia	IEC61347-1, IEC61347-2-13			
		RCM	Australia	AS 61347-1, AS 61347-2-13			
		EMEC	Europe	EN61347-1, EN61347-2-13, EN62384			
Line		UKCA	Britain	BS EN 61347-2-13:2014+A1:2017, BS EN 613	347-1:2015+A1:2021		
	EMC Emission	CCC	China European Union	GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN61	15/7		
		KC	European Union Korea	KN15, KN61547	347		
		EAC	Russia	IEC62493, IEC61547, EH55015			
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61	547		
		UKCA	Britain	BS EN IEC 55015:2019/A11:2020, BS EN 615	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					
OTHERS	Dimensions	352×43×30mm(L×W×H)					
	Package size	355×44×33mm(L×W×H)					
	Carton Size	370×340×93mm(L×W×H) 20pcs/ctn 9.4kg±5%/ctn					
The driver	is suitable for connecting resistor currer	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					

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 (lickering). 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.), so that we can prepare them with special procedures.

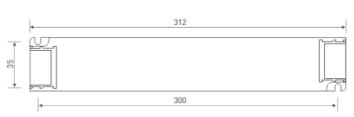
ZHUHAI LTECH TECHNOLOGY CO., LTD. 15th Building, No.3, Pingdong 6th Road, Nanping Technical Industrial Park, Zhuhai, Guangdong, China www.ltech-led.com



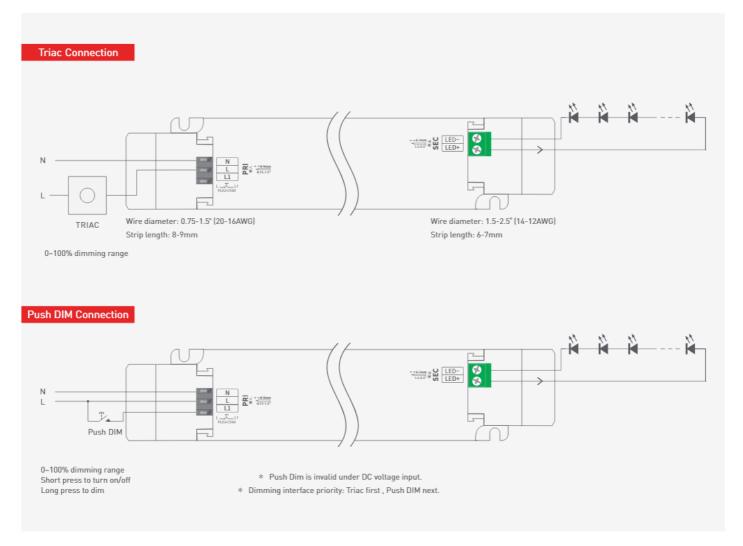
Product Size

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 tool.



2. Connect to electrical wires with a screwdriver as wiring diagram shows.



Press down the tension plate to fix the the electrical wires, then close the protective housing.

Remove the protective housing



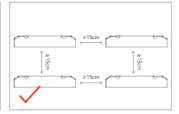




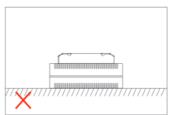
Pull the housing left and right from the bottom to remove it.

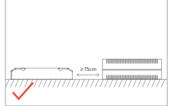
Installation Precautions





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

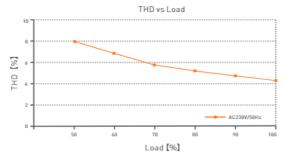


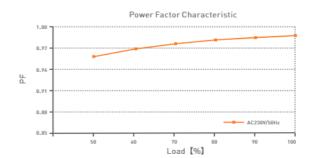


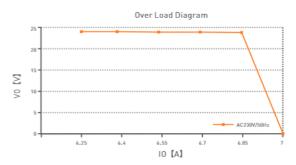
Please not place the products on LED drivers. The distance between the product and the driver should be \geqslant 15cm so as not to affect heat dissipation and shorten the lifespan of the products.

Relationship Diagrams



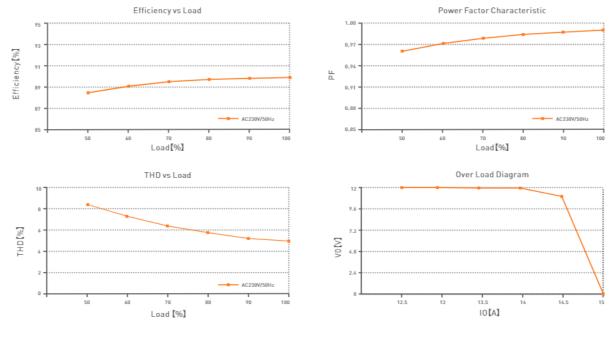






LM-150-24-G1T2



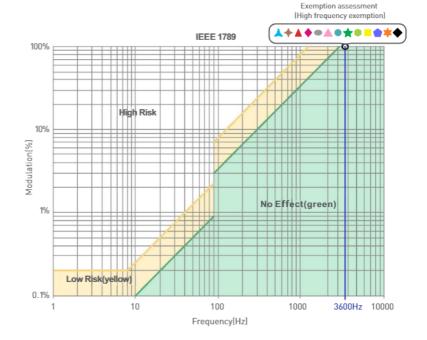


LM-150-12-G1T2

Flicker Test Table

IEEE 1789 Brightness ▲ 0.1% Limit Value of Modulation in Low Risk Areas 1% 5% f ≤ 8Hz 10% 8Hz < f ≤ 90Hz 20% 90Hz < f ≤ 1250Hz 30% 0.08 x f 40% f > 1250Hz Exemption assessment 50% Limit Value of Modulation in No Effect Areas 60% 70% 80% f ≤ 10Hz 0.1 90% 10Hz < f ≤ 90Hz 0.01 × f 100% 90Hz < f ≤ 3125Hz (0.08/2.5) × f f > 3125Hz

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
A0	2021.04.27	Original version	Liu Weili
A1	2021.12.10	Update the product silk screen and add installation precautions	Liu Weili