

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 Achieve the exemption level.



































Technical Specs

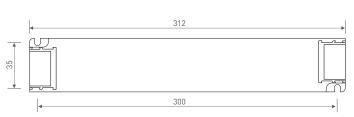
-	I M 150	1-2/-G1T2		LM-150-12-G1T2		
Output Valtage		J-Z4-U11Z		LM-150-12-G1T2		
		L a mu		12Vdc		
				12Vdc ± 0.5Vdc		
	Max. 6.25A Max. 12.5A					
	0~150V	<u> </u>				
Strobe Level	High frequency exemption level					
Dimming Range	0~100%, down to 0.1%					
Overload Power Limitation	≥102%					
Ripple	<200mV					
PWM frequency	3600Hz					
Dimming Interface	Triac/ELV, Push DIM					
Input Voltage	220-240Vac					
Frequency	50/60Hz					
Input Current	<0.75A/230Vac					
Power Factor	PF>0.98/230Vac (at full load)					
THD						
			,	90%		
-						
,						
	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					
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					
	ccc	China	GB19510.1, GB19510.14			
	TUV	Germany	EN61347-1, EN61347-2-13, EN62493			
	СВ	CB member states	IEC61347-1, IEC61347-2-13			
			EN61347-1, EN61347-2-13, EN62384, EN615	547		
Safety Standards						
			*			
				3/7-1-2015±A1-2021		
				347-1:2013TA1:2021		
				1547		
EMC Emission	KC	Korea	KN15, KN61547			
EMC Emission		ъ .	IEC62493, IEC61547, EH55015			
EMC Emission	EAC	Russia	12002470,12001047,21100010			
EMC Emission	RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61			
	RCM UKCA	Australia Britain	EN55015, EN61000-3-2, EN61000-3-3, EN61 BS EN IEC 55015:2019/A11:2020, BS EN 615	1547 547:2009, BS EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A1:2019		
EMC Immunity	RCM UKCA EN6100	Australia Britain 00-4-2,3,4,5,6,8,11, EN	EN55015, EN61000-3-2, EN61000-3-3, EN61 BS EN IEC 55015:2019/A11:2020, BS EN 615			
EMC Immunity Strobe Test Standard	RCM UKCA EN6100 IEEE 17	Australia Britain 00-4-2,3,4,5,6,8,11, EN 789	EN55015, EN61000-3-2, EN61000-3-3, EN61 BS EN IEC 55015:2019/A11:2020, BS EN 615			
EMC Immunity	RCM UKCA EN6100 IEEE 17 430g±1	Australia Britain 10-4-2,3,4,5,6,8,11, EN 789 0g	EN55015, EN61000-3-2, EN61000-3-3, EN61 BS EN IEC 55015:2019/A11:2020, BS EN 615			
EMC Immunity Strobe Test Standard Gross weight(G.W) Dimensions	RCM UKCA EN6100 IEEE 17 430g±1	Australia Britain 00-4-2,3,4,5,6,8,11, EN 789	EN55015, EN61000-3-2, EN61000-3-3, EN61 BS EN IEC 55015:2019/A11:2020, BS EN 615			
EMC Immunity Strobe Test Standard Gross weight(G.W)	RCM UKCA EN6100 IEEE 17 430g±1 352×43	Australia Britain 10-4-2,3,4,5,6,8,11, EN 789 0g	EN55015, EN61000-3-2, EN61000-3-3, EN61 BS EN IEC 55015:2019/A11:2020, BS EN 615			
	Overload Power Limitation Ripple PWM frequency Dimming Interface Input Voltage Frequency Input Current Power Factor THD Efficiency (typ.) Inrush Current Anti Surge Leakage Current Working Temperature Working Humidity Storage Temperature,Humidity Temperature Coefficient Vibration Overheat Protection Overload Protection Short Circuit Protection Withstand Voltage Isolation Resistance Safety Standards	Output Voltage 24Vdc Output Voltage Range 24Vdc Output Current Max. 6. Output Power Max. 15 Output Power Range 0-150W Strobe Level High fre Dimming Range 0-100% Overload Power Limitation >102% Ripple <200mW	Output Voltage Range 24Vdc ± 0.5Vdc Output Current Max. 6.25A 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	Output Voltage 24Wdc ± 0.5Vdc Output Current Max. 6.25A 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		



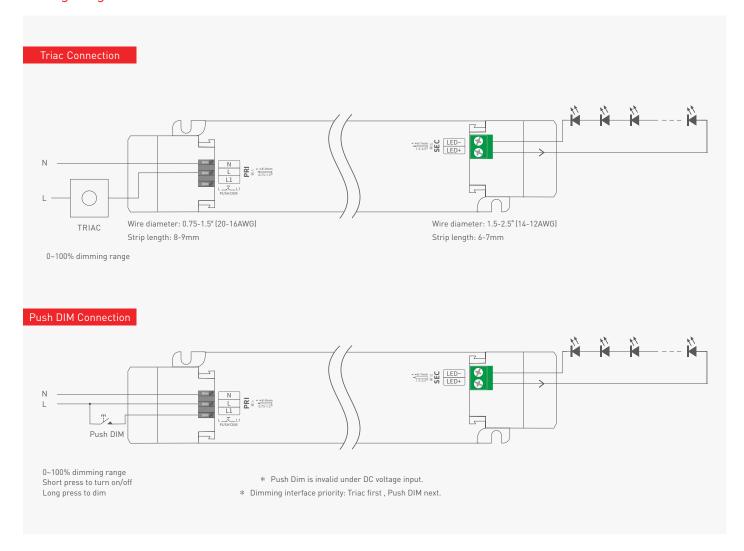
Product Size

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

www.ltech-led.com



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

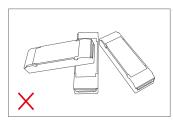


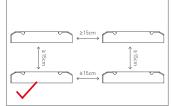




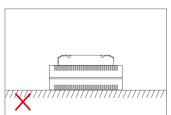
Pull the housing left and right from the bottom to remove it.

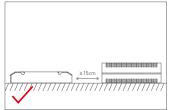
Installation Precautions





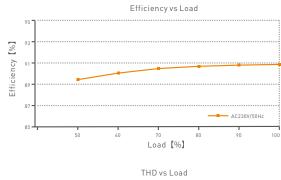
Please do not stack the products. The distance between two products should be \geqslant 15cm so as not to affect heat dissipation and the lifespan of the products.

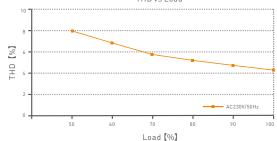


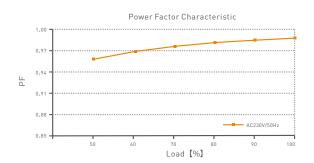


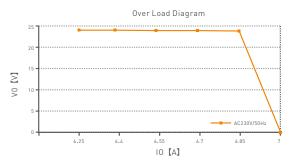
Please not place the products on LED drivers. The distance between the product and the driver should be \geqslant 15cm so as not to affect heat dissipation and shorten the lifespan of the products.

Relationship Diagrams



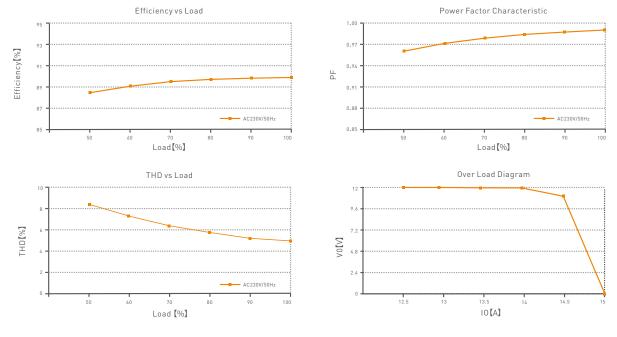






LM-150-24-G1T2



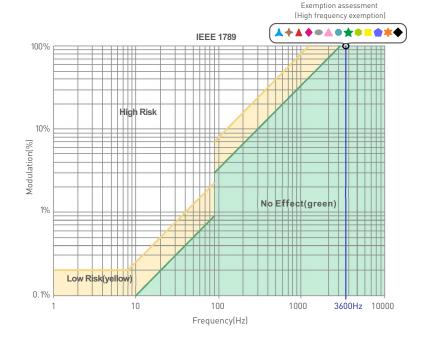


LM-150-12-G1T2

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% 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