

General

Product Type	Constant Voltage Driver
Length (mm)	352
Width (mm)	43
Height (mm)	30
Housing Color	White
Housing Material	PC
Mounting	Surface mounted
Weight (g)	

Electronics

Input Domain	AC		
Input Voltage	220 ~ 240V AC		
Input Current max (A)	0.75A @ 230V AC		
Output Voltage	12V DC		
Output Current (mA) max/output	12500		
Output Current Max. (A)	12.5		
Output Power Range (W)	0~150		
Power Factor at Full Load	+0.98 @ 230VAC		
Power Supply	Internal		
Efficiency	90%		
Standby Power Loss Max. (W)	0.5		
THD (at full load)	6% @ 230V AC		
Input Frequency	50 ~ 60Hz		
Inrush Current	45A @ 230VAC		

Lighting

Color Range	Single Color
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Control

Output Signal	PWM-CV
Control	TRIAC
Dimming Range	O~100%
Number of Channels	1

Protection

Overload	Yes
Restart after Protection	Yes
Protection Class	II

Environmental

Storage Temperature	-40 ~ +80 °C
Operating Temperature	-20 ~ +50 °C
Ingress Protection	IP20





CE ROHS IP20 5 year warranty

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.



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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.





























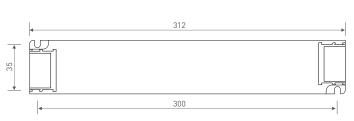


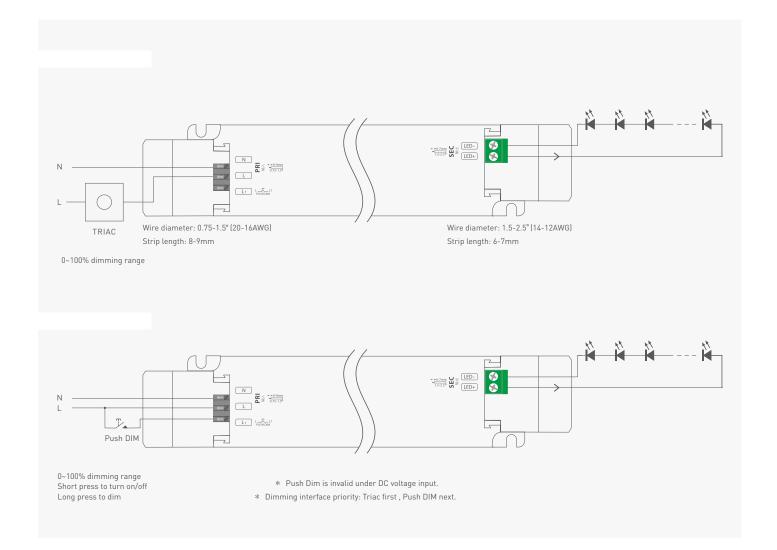


Model		LM-150	-24-G1T2		LM-150-12-G1T2
	Output Voltage	24Vdc			12Vdc
	Output Voltage Range		± 0.5Vdc		12Vdc ± 0.5Vdc
	Output Current				
		Max. 6.2			Max. 12.5A
	Output Power	Max. 15			
оитрит	Output Power Range	0~150W			
	Strobe Level	High frequency exemption level			
	Dimming Range	0~100%, down to 0.1%			
	Overload Power Limitation	≥102%			
	Ripple	≤200mV			
	PWM frequency	3600Hz			
	Dimming Interface	Triac/ELV, Push DIM			
	Input Voltage	220-240	Vac		
	Frequency	50/60H	Z		
	Input Current	<0.75A	/230Vac		
	Power Factor	PF>0.98	/230Vac (at full load)		
INPUT	THD		%@230Vac (at full lo	ad)	
	Efficiency (typ.)	91%			90%
	Inrush Current		art 45A/230Vac		1-2-12
		L-N: 2K			
	Anti Surge				
	Leakage Current				
	Working Temperature		- 50°C tc: 90°C		
	Working Humidity		%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			
PROTECTION	Overload Protection	Shut down the output when current load>102%, and recover automatically			
ROTECTION	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically			
	Overvoltage Protection	Shut do	wn the output when no	n-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			
		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	47
	E R	KC	Korea	KC61347-1, KC61347-2-13	
		EAC	Russia	IEC61347-1, IEC61347-2-13	
SAFETY		RCM	Australia	AS 61347-1, AS 61347-2-13	
& EMC		EMEC	Europe	EN61347-1, EN61347-2-13, EN62384	
2.510		UKCA	Britain	BS EN 61347-2-13:2014+A1:2017, BS EN 613	347-1:2015+A1:2021
		CCC	China	GB/T17743, GB17625.1	5/7
		CE KC	European Union Korea	EN55015, EN61000-3-2, EN61000-3-3, EN61 KN15, KN61547	047
	EMC Emission	EAC	Russia	IEC62493, IEC61547, EH55015	
	_	RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61	547
		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	Package size	355×44×33mm(L×W×H)			
	Carton Size	370×340×93mm(L×W×H) 20pcs/ctn 9.4kq±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			

Unit: mm







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

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.

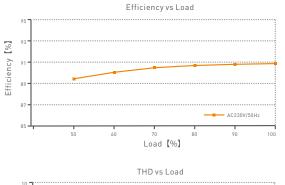
Remove the protective housing





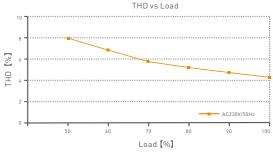


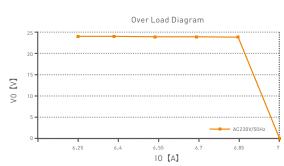
Pull the housing left and right from the bottom to remove it.



Power Factor Characteristic

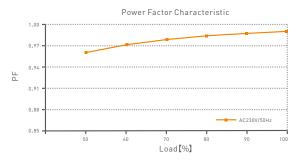
1.00
0.97
0.94
0.91
0.88
0.88
0.85
50
60
70
80
90
100
Load [%]

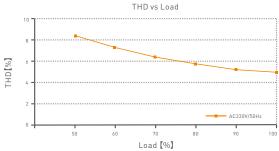


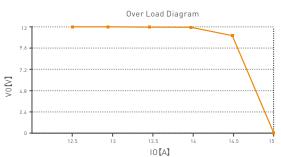


LM-150-24-G1T2









IEEE 1789

Limit Value of Modulation in Low Risk Areas 0.025 × f 90Hz < f ≤ 1250Hz 0.08 × f f > 1250Hz Exemption assessment Limit Value of Modulation in No Effect Areas f ≤ 10Hz 10Hz < f ≤ 90Hz 0.01 × f 90Hz < f ≤ 3125Hz $(0.08/2.5) \times f$ Exemption assessment (High frequency exemption 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.

- 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 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
A1	2021.09.10	Modify the product and add UKCA certification icon	Liu Weili