

General

Product Type	Constant Voltage Driver
Length (mm)	352
Width (mm)	43
Height (mm)	30
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	435

Electronics

Input Domain	AC
Input Voltage	220 ~ 240V AC
Input Current max (A)	0.75A @ 230V AC
Output Voltage	24V DC
Output Current (mA) max/output	6250
Output Current Max. (A)	6.25
Output Power Range (W)	0~150
Power Factor at Full Load	+0.98 @ 230VAC
LED Outputs	2
LED Outputs Anti Surge	2 L-N: 2kV
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Anti Surge	L-N: 2kV
Anti Surge Efficiency	L-N: 2kV 93%
Anti Surge Efficiency Leakage current max. (mA)	L-N: 2kV 93% 0.5
Anti Surge Efficiency Leakage current max. (mA) Standby Power Loss Max. (W)	L-N: 2kV 93% 0.5

Lighting

Color Range	Tunable White

Control

Output Signal	PWM-CV
Control	DMX
Dimming Range	0~100%
Number of Channels	2

Protection

Protection	Class	I
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Environmental

Storage Temperature	-40 ~ +80 °C
Operating Temperature	−20 ~ +50 °C
Ingress Protection	IP20
Safety Standards	NEN-EN-IEC 61347-1,
	NEN-EN-IEC 61347-2-13,

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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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LED Intelligent CT Driver (constant voltage)

- Dimming interface: DMX512/RDM, Push DIM/CCT
- 2 independently SELV constant voltage output channels.
- Constant power design, adjust different color temperature to keep the same brightness.
- Supports RDM remote device management protocol.
- Dimming range from 0-100%, LED start at 0.1% possible.
- With soft-on and fade in function, visual more comfortable.
- Color temperature adjusting range: 2700-6500K
- 0-100% flicker-free,High frequency exemption level.
- High efficient driver: efficiency 93%, PF>0.98, THD<6%.
- ullet In line with the EU energy efficiency ERP directive, standby power consumption < 0.5W
- Innovative thermal management technology, intelligent power life protection.
- Over-heat / Over voltage / Over load / Short circuit protection, recover automatically.
- Fully-protected plastic housing with design of dismountable end cover.
- Suitable for indoor I / II / III type lamps application.
- 5 years warranty (Rubycon capacitor).

















DMX/RDM

Push DIM/CCT















Specification

Model		LM-150-24-G2M2	LM-150-12-G2M2	
	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 0~150W High frequency exemption level. 3600Hz		
оитрит	Output Power Range			
	Strobe Level			
	PWM Frequency			
	Dimming Range	0~100%, dimming depth: Max. 0.1% ≥102%		
	Overload Power Limitation			
	Ripple & Noise	Switch ripple≤200mV, noise≤500mV	Switch ripple≤200mV, noise≤800mV	
	Dimming Interface	DMX512/RDM,Push DIM/CCT		
	Input Voltage	220-240Vac 200-280Vdc 50/60Hz Max. 0.75A/230Vac		
	Frequency			
	Input Current			
INPUT	Power Factor	PF>0.98/230Vac, at full load		
	THD	<6% at 230Vac, at full load 93% 92%		
	Efficiency (typ.)			
	Standby Power Loss	<0.5W		
	Inrush Current(typ.)	Cold start 45A at 230Vac		
	Control surge capability	L-N:2KV		
	Leakage Current	Max. 0.5mA		
	Working Temperature	ta: -20°C - 50°C tc: 85°C 20 ~ 95%RH, non-condensing -40°C ~ 80°C, 10~95%RH		
	Working Humidity			
ENVIRONMENT	Storage Temp., Humidity			
	Temp. Coefficient	±0.03%/°C (0-50°C)		
	Vibration	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.		
	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, auto recovers.		
PROTECTION	Over Voltage Protection	Shut down the output when non-load voltage≥28V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage≥16V, re-power on to recover after fault condition is removed.	
	Over Load Protection	Shut down the output when current load≥102%, auto recovers. Enter hiccup mode if short circuit occurs, auto recovers.		
	Short Circuit Protection			
	Withstand Voltage	/P-0/P: 3750Vac /P-0/P: 100MΩ/500VDC/25°C/70%RH IEC/EN61347-1, IEC/EN61347-2-13 En55015, EN61000-3-2 Class C, IEC61000-3-3		
	Isolation Resistance			
SAFETY &	Safety Standards			
ЕМС	EMC Emission			
	EMC Immunity EN61000-4-2,3,4,5,6,8,11 EN61547			
	Strobe Test Standard	IEEE 1789		
	Weight(G.W.)	430g±10g		
	Dimensions	352×43×30mm(L×W×H)		
OTHERS	Package Size	355×44×33mm(L×W×H)		
	Coton Size	370×340×93mm(L×W×H) 20pcs/ctn 9.4kg±5%/ctn		

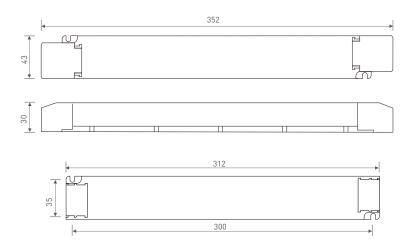
LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), then we can prepare the special programs. www.ltech-led.com



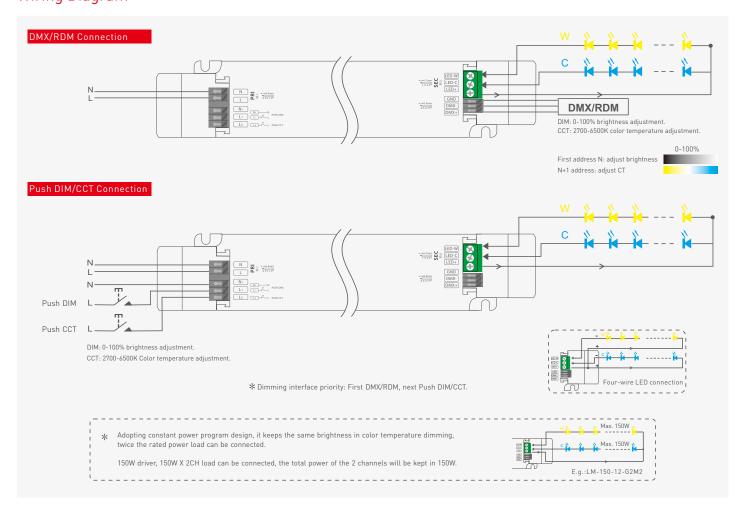


Dimensions

Unit: mm



Wiring Diagram



Push DIM/CCT



DIM

- On/off control: Short press.
- Stepless dimming: Long press.
- 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.

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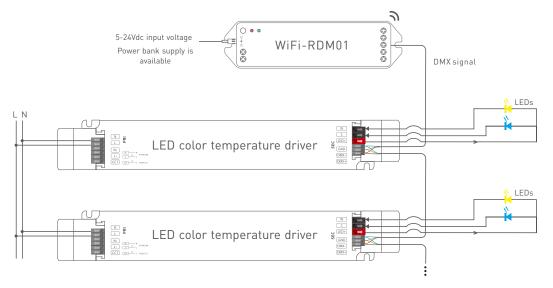
- Color temperature adjustment: Long press.
- \bullet With every other long press, the color temperature level goes to the opposite direction.
- Color temperature memory: Color temperature will be the same as previously adjusted when turning off and on again.





DMX Address Setting

The DMX driver can work with the address editor that complies with standard RDM protocol. It is recommended to use LTECH's RDM editor (model WiFi-RDM01), which can achieve more functions such as remote browsing and parameter setting. Wiring diagram as below:





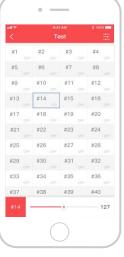
* the defaulted DMX address of the driver is 1.

LTECH RDM editor App interface instruction

Download the App, setting the parameters after well connecting the RDM editor, please check the manual of WiFi-RDM01 for more details



- a: Click"Add", edited the address in corresponding box.
- b: Click"ID", get more product details.
 c: Click" (1) ", enter setting interface
 d: Click"No.", issue the recognizing command.



Test



DMX address setting

Application of Protective Cover

Wire pressing board:



Push the wire pressing board to fix the wires.





Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board.

Uninstall protective cover:





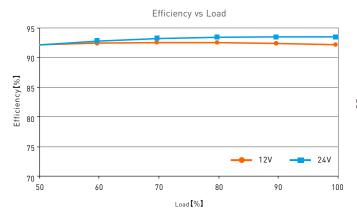


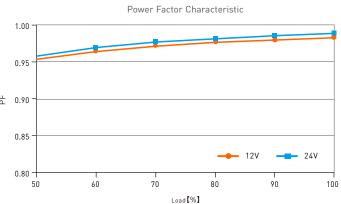
Break off the bottom left and right to remove the protective cover.

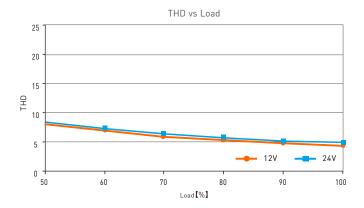




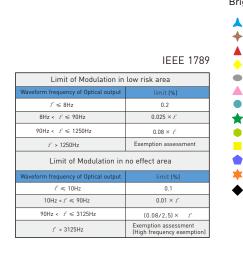
Relationship Diagrams

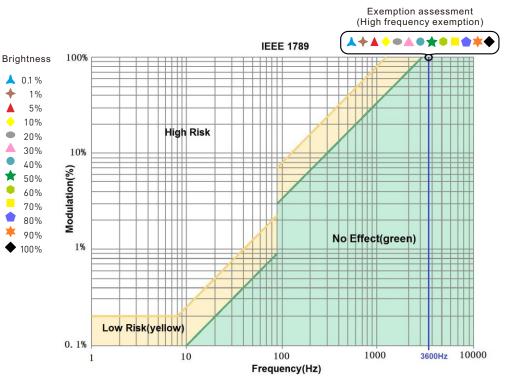






Flicker Test Form









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.
- $2. \ \, \mathsf{LTECH} \, \mathsf{has} \, \mathsf{the} \, \mathsf{right} \, \mathsf{to} \, \mathsf{amend} \, \mathsf{or} \, \mathsf{adjust} \, \mathsf{the} \, \mathsf{terms} \, \mathsf{of} \, \mathsf{this} \, \mathsf{warranty}, \, \mathsf{and} \, \mathsf{release} \, \mathsf{in} \, \mathsf{written} \, \mathsf{form} \, \mathsf{shall} \, \mathsf{prevail}.$