

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	
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	O-1OV
Dimming Range	0~100%
Number of Channels	2

Protection

Protection Class

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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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: 0-10V(1-10V/10V PWM/RX), Push DIM/CCT.
- Dimming interface with photoelectric isolation, in line with the latest safety standards, more safe and reliable.
- 0-10V DIM and color temperature adjusting driver, 2 independently SELV constant voltage output channels.
- Constant power design, adjust different color temperature to keep the same brightness.
- 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.
- Automatic recognition of 0-10V, 1-10V input signal.
- 0~100% flicker-free, High frequency exemption level.
- High efficient driver: efficiency 93%, PF>0.98, THD<6%.
- 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 $\mathbb{I} \, / \mathbb{II} / \mathbb{II}$ type lamps application.
- Up to 50,000-hour life time.
- 5 years warranty (Rubycon capacitor).



0-10V

PUSH





PWM



0-10V 1-10V 10V PWM

Flicker-free IEEE 1789 Achieve the exemption level.

Dimmable: 0.1%-100%



5 in 1 DIM & CT adjustment

Push
Ultra-low consumption of 0-10V ports: < 0.05mA.



CE RoHS



SELV Class 2



Dim / CT



Model		LM-150-24-G2A2	LM-150-12-G2A2	
	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	Output Power Range	0~150W High frequency exemption level.		
	Strobe Level			
	PWM Frequency	3600Hz 0~100%, dimming depth: Max. 0.1%		
	Dimming Range			
	Overload Power Limitation	≥102%		
	Ripple & Noise	Switch ripple<200mV, noise<500mV	Switch ripple<200mV, noise<800mV	
	Dimming Interface			
	Interface consumption	<0.05mA @ 0-10V		
	Input Voltage	220-240Vac 200-280Vdc		
	Frequency	50/60Hz Max. 0.75A/230Vac PF>0.98/230Vac, at full load <6% at 230Vac, at full load		
	Input Current			
INPUT	Power Factor			
	THD			
	Efficiency (typ.)	93%	92%	
	Standby Power Loss	<0.5W Cold start 45A at 230Vac L-N:2KV Max. 0.5mA		
	Inrush Current(typ.)			
	Control surge capability			
	Leakage Current			
	Working Temperature	ta: -20°C ~ 50°C tc: 85°C 20 ~ 95%RH, non-condensing		
	Working Humidity			
ENVIRONMENT	Storage Temp., Humidity	-40°C ~ 80°C, 10~95%RH		
	Temp. Coefficient	Temp. Coefficient ±0.03%/°C (0-50°C) Vibration 10–500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes		
	Vibration			
	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			
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, auto recovers		
	Withstand Voltage I/P-0/P: 3750Vac			
	Isolation Resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH		
SAFETY &	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13		
EMC	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3		
	EMC Immunity EN61000-4-2,3,4,5,6,8,11 EN61547			
	Strobe Test Standard	IEEE 1789		
	Dimensions	352×43×30mm(L×W×H)		
OTHERS	Packing	Packing 355x44x33mm(LxWxH)		
	Weight(G.W.)	430g±10g		

[🛊] The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times times increased if connecting built-in constant current IC current-limiting 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.



Dimensions

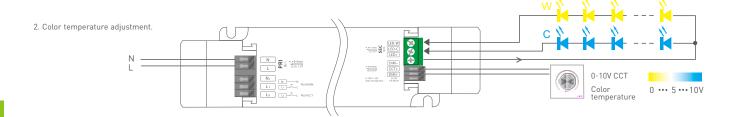
Unit: mm

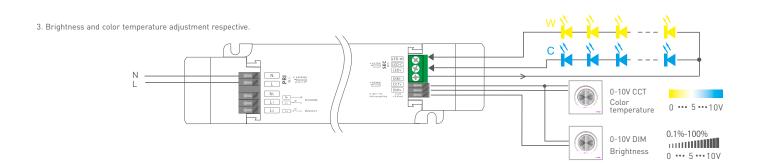


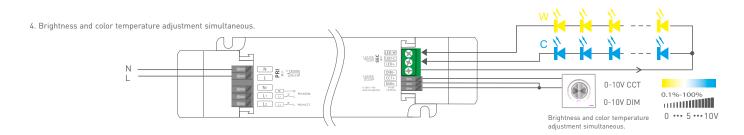
Wiring Diagram

0-10V Connection





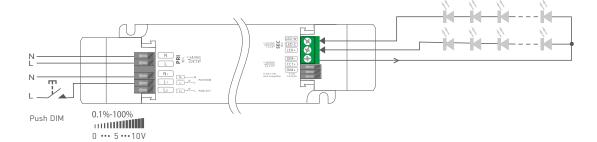




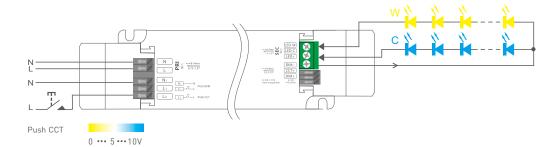


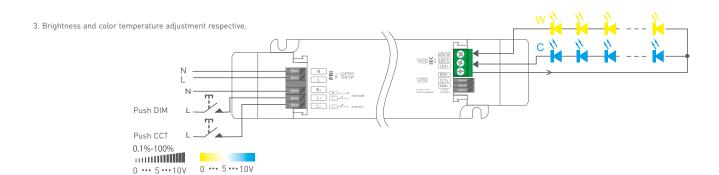
Push DIM/CCT Connection

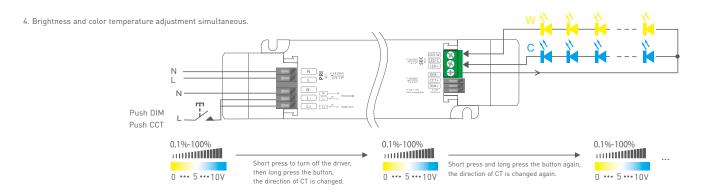
1. Brightness adjustment.



2. Color temperature adjustment.

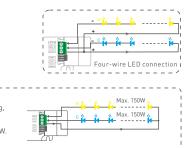






* Dimming interface priority: First 0-10V, next Push DIM/CCT.

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* Adopting constant power program design, it keeps the same brightness in color temperature dimming, twice the rated power load can be connected.

150W driver, 150W X 2CH load can be connected, the total power of the 2 channels will be kept in 150W.

LTECH

Push DIM/CCT



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DIA

- 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.

CCT

- · Color temperature adjustment: Long press.
- With every other long press, color temperature go to the opposite direction.
- Color temperature memory: Color temperature will be the same as previously adjusted when turning on again.
- * Applicable to brightness adjustment, color temperature adjustment and brightness/CT adjustment respective of Push DIM/CCT connection.



DIM/CCT

- On/off control: Short press.
- Stepless dimming and color adjustment: long press.
- With every other long press, color temperature go to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning on again.

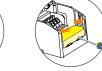
 $*$ Applicable to brightness and CT adjustment simultaneous of Push DIM/CCT connection.

Application of Protective Cover

Wire pressing board:







Push the wire pressing board to fix the wire.

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

Uninstall protective cover:

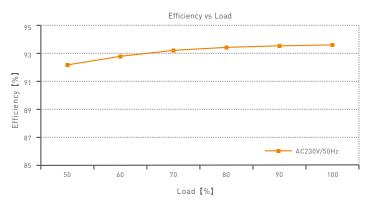


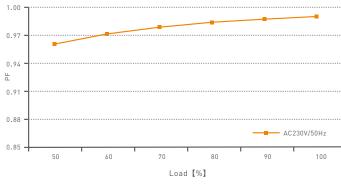




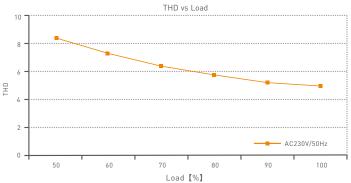
Break off the bottom left and right to remove the protective cover.

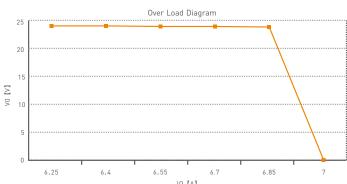
Relationship Diagrams





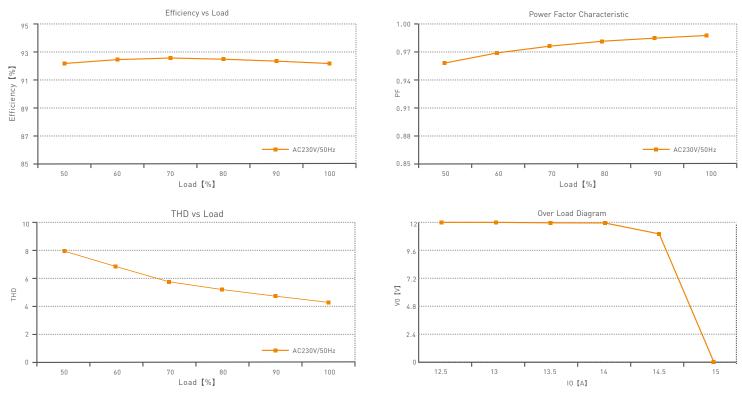
Power Factor Characteristic





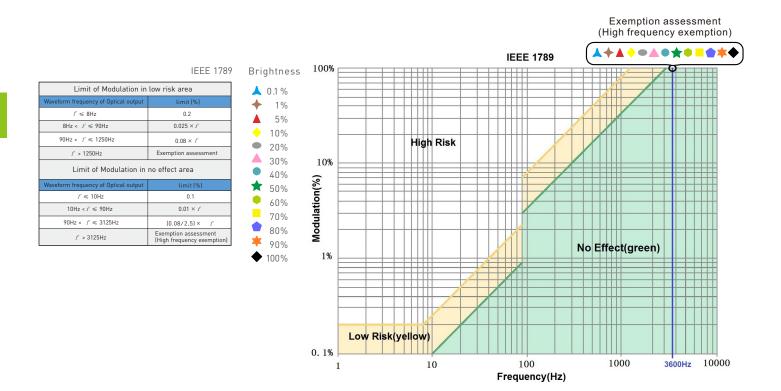
LM-150-24-G2A2





LM-150-12-G1A2

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. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.