



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)	300

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
LED Outputs	1
Leakage current max. (mA)	0.5
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	0-10V
Dimming Range	0~100%
Number of Channels	1
Functions	Push DIM

Protection

Protection Class	II
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Environmental

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

CE 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.



LED Intelligent Driver (constant voltage)

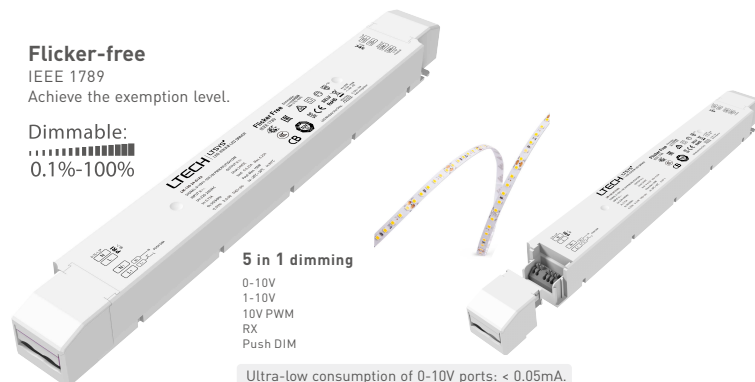
- Dimming interface: 0-10V(1-10V/10V PWM/RX), Push DIM
- Dimming range from 0-100%, LED start at 0.1% possible.
- With soft-on and fade in function, visual more comfortable.
- Automatic recognition of 0-10V, 1-10V input signal.
- 0-100% flicker-free ,High frequency exemption level.
- High efficient driver: efficiency 93%, PF>0.98, THD<6%.
- Ultra-low consumption of 0-10V ports: < 0.05mA.
- Dimming interface with photoelectric isolation, in line with the latest safety standards, more safe and reliable.
- 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 internal lights application for I /II/III
- Up to 50000-hour life time.
- 5 years warranty (Rubycon capacitor).

Flicker-free

IEEE 1789
Achieve the exemption level.

Dimmable:

0.1%-100%



SELV Class 2
RoHS



(The certification icon represents undergoing certification applications only, and final certification qualification subject to actual product.)

0-10V
Push DIM



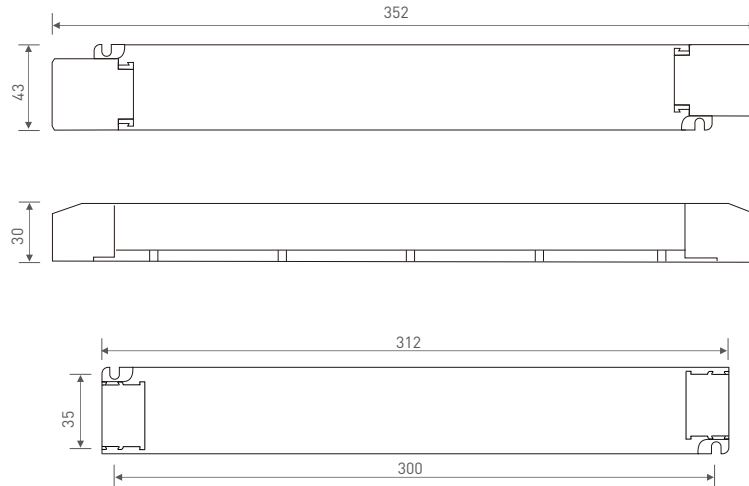
Specification

Model		LM-150-24-G1A2	LM-150-12-G1A2
OUTPUT	Output Voltage	24Vdc	12Vdc
	Output Voltage Range	24Vdc $\pm$ 0.5Vdc	12Vdc $\pm$ 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.	
	PWM Frequency	3600Hz	
	Dimming Range	0~100%, dimming depth: Max. 0.1%	
	Overload Power Limitation	$\geq 102\%$	
	Ripple & Noise	Switch ripple ≤ 200 mV, noise ≤ 500 mV	Switch ripple ≤ 200 mV, noise ≤ 800 mV
INPUT	Dimming Interface	0-10V(1-10V/10V PWM/RX), Push DIM	
	Interface consumption	<0.05mA @ 0-10V	
	Input Voltage	220-240Vac	200-280Vdc
	Frequency	50/60Hz	
	Input Current	Max. 0.75A/230Vac	
	Power Factor	PF>0.98/230Vac, at full load	
	THD	<6% at 230Vac, at full load	
	Efficiency (typ.)	93%	92%
	Standby Power Loss	< 0.5W	
	Inrush Current(typ.)	Cold start 45A at 230Vac	
	Control surge capability	L-N:2KV	
	Leakage Current	Max. 0.5mA	
ENVIRONMENT	Working Temperature	ta: -20°C ~ 50°C tc: 85°C	
	Working Humidity	20 ~ 95%RH, non-condensing	
	Storage Temp., Humidity	-40°C ~ 80°C, 10~95%RH	
	Temp. Coefficient	$\pm 0.03\%/^{\circ}\text{C}$ (0-50°C)	
PROTECTION	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 $\geq 110^{\circ}\text{C}$, auto recovers.	
	Over Voltage Protection	Shut down the output when non-load voltage ≥ 28 V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage ≥ 16 V, re-power on to recover after fault condition is removed.
	Over Load Protection	Shut down the output when current load $\geq 102\%$, auto recovers.	
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, auto recovers.	
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac	
	Isolation Resistance	I/P-O/P: 100M Ω /500VDC/25°C/70%RH	
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13	
	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	
OTHERS	Dimension	352x43x30mm(LxWxH)	
	Packing	355x44x33mm(LxWxH)	
	Weight[G.W.]	430g $\pm$ 10g	

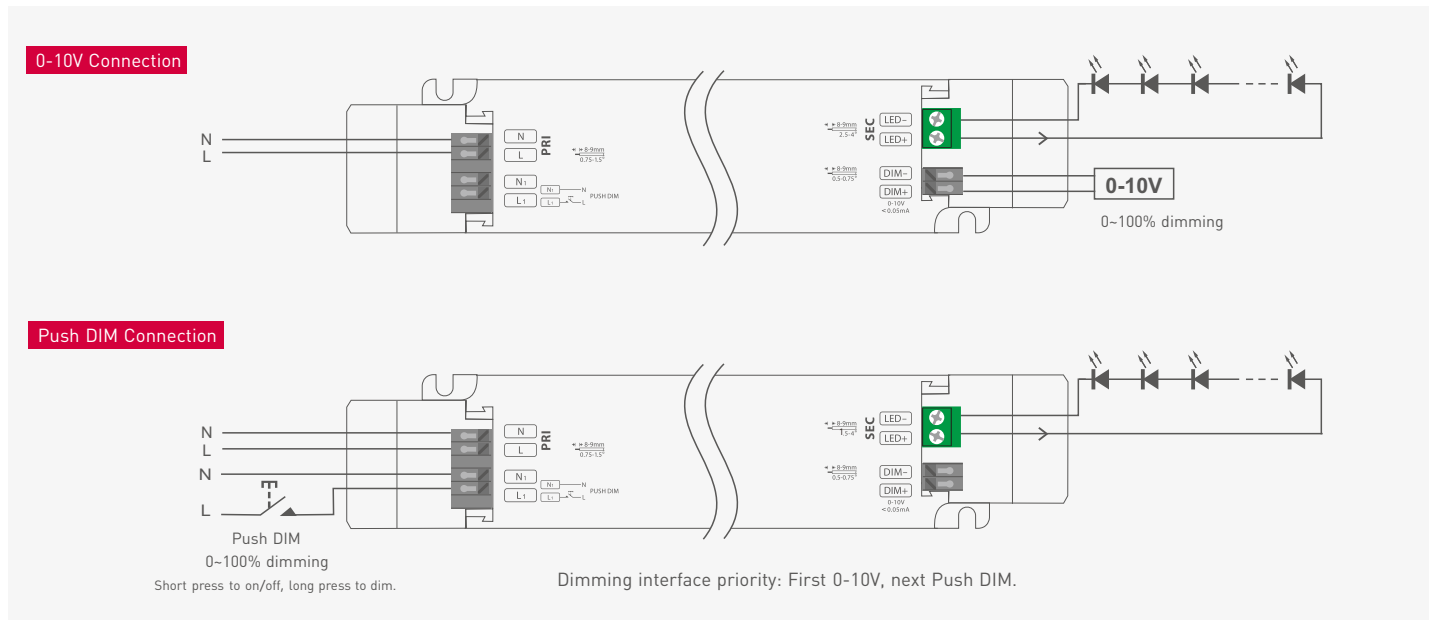
* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccup flickering). When you 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



Push Dimming

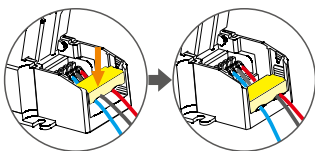


Reset switch

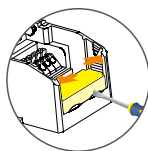
- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

Application of Protective Cover

Wire pressing board:

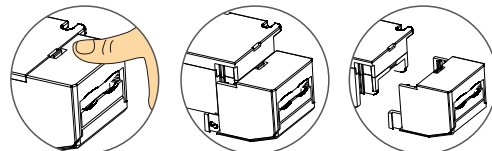


Push the wire pressing board to fix the wire.



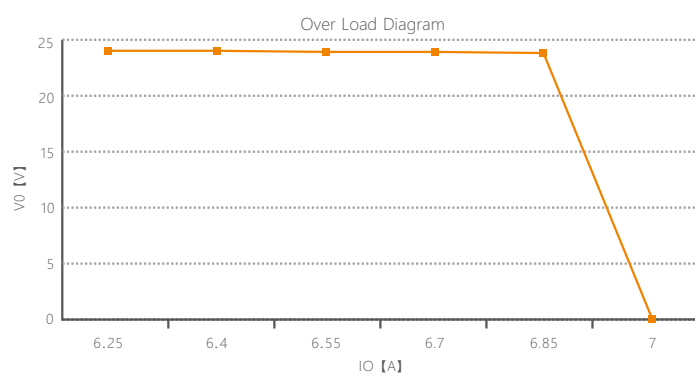
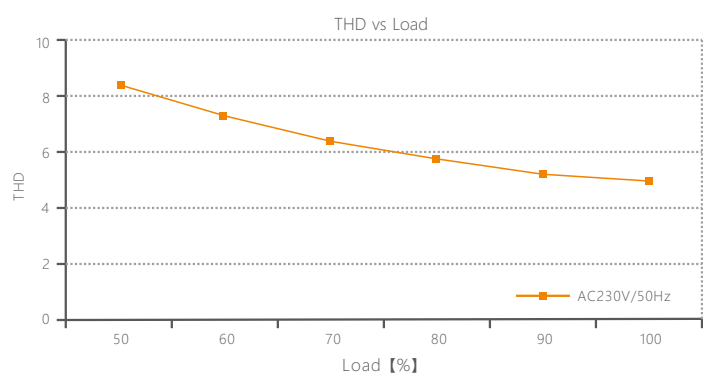
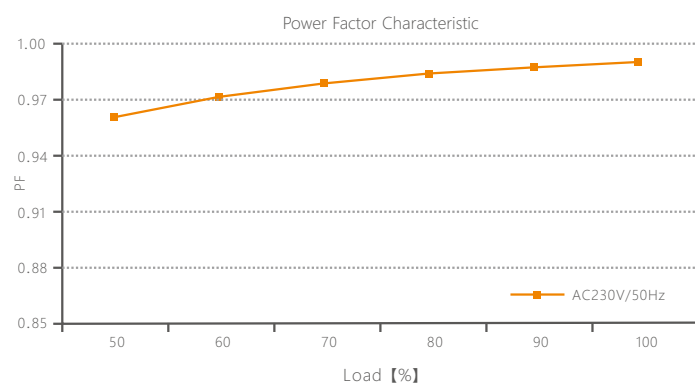
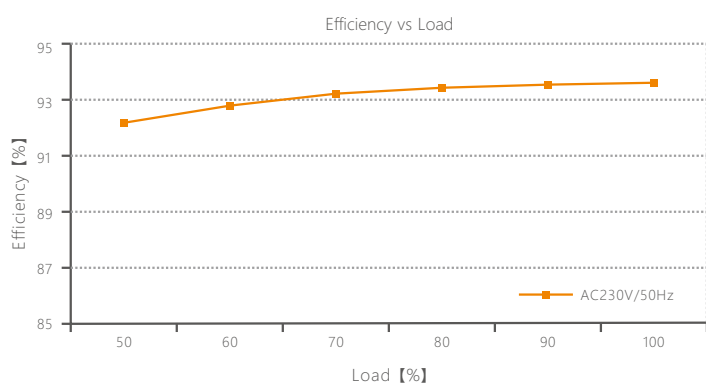
Push outward the side plate, meanwhile use the tool to uninstall the wire pressing board.

Uninstall protective cover:

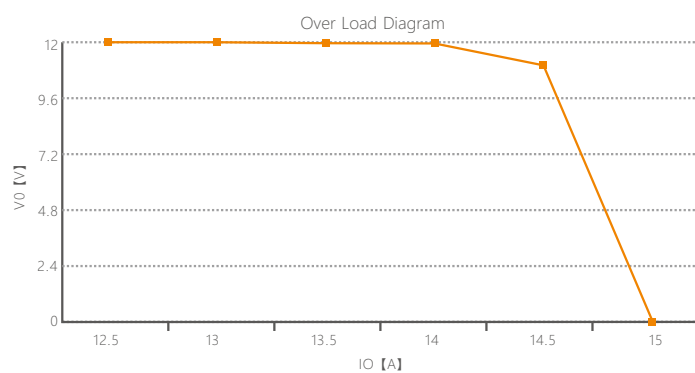
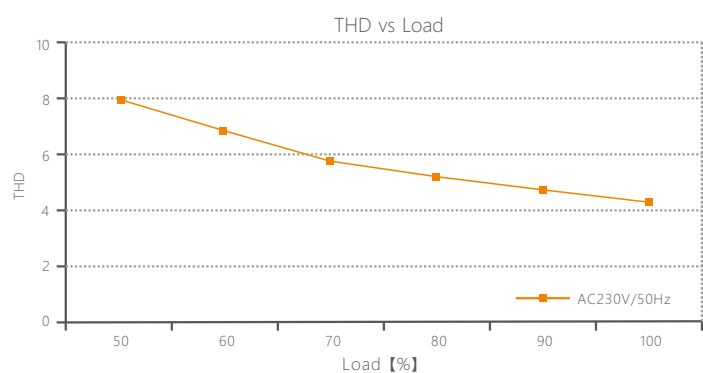
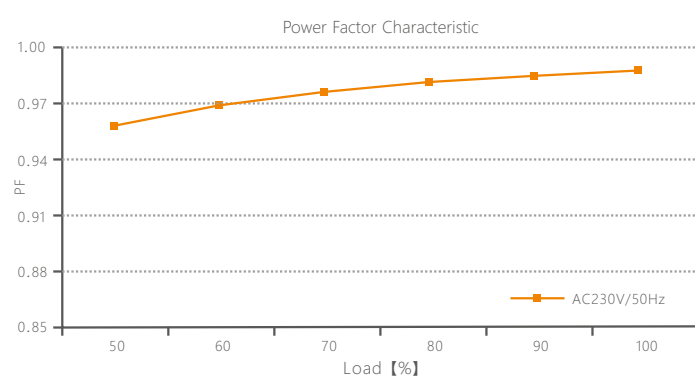
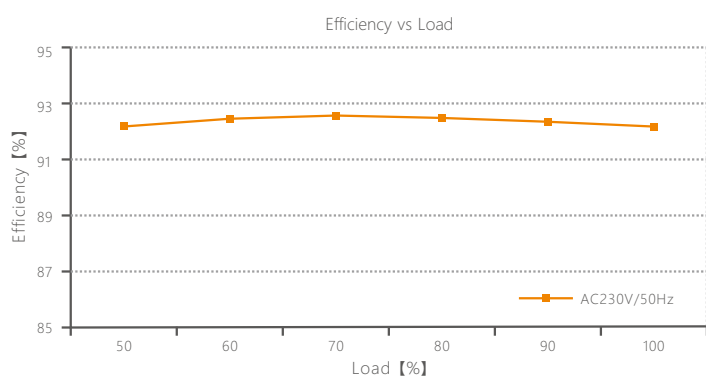


Break off the bottom left and right to remove the protective cover.

Relationship Diagrams



LM-150-24-G1A2



LM-150-12-G1A2

Flicker Test Form

