

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.
- Automatic recognition of 0-10V, 1-10V input signal.
- 0-100% flicker-free (IEEE 1789 standard).
- High performance driver: efficiency 93%, PF>0.98, THD<5%.
- 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.
- Full protective plastic housing.
- Suitable for internal lights application for I / II / III
- 5 years warranty (Rubycon capacitor).

Flicker-free

IEEE 1789

Achieve the exemption level.

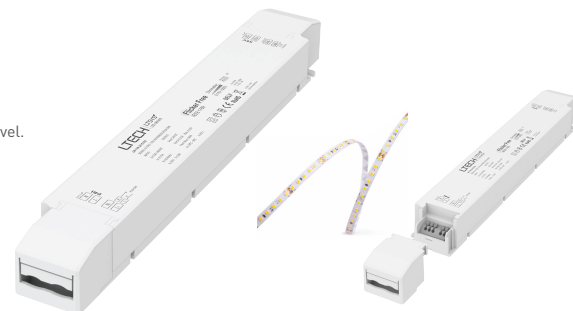
Dimmable:

0.1%-100%

5 in 1 dimming

0-10V
1-10V
10V PWM
RX
Push DIM

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



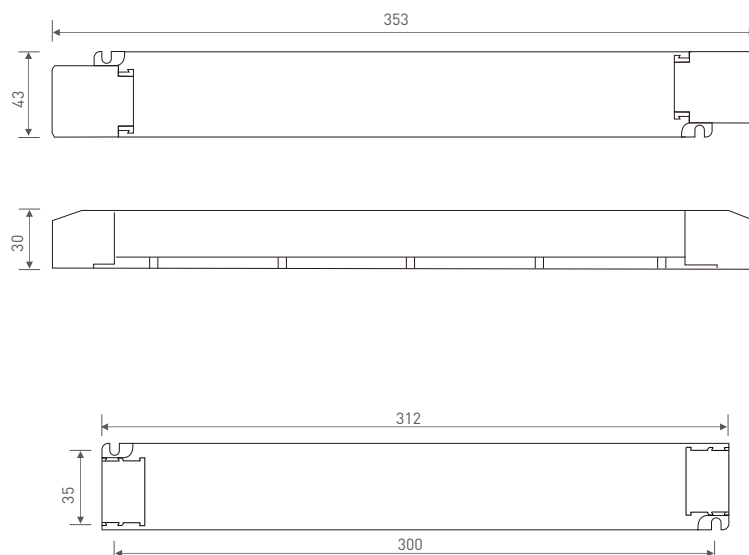
Specification

Model		LM-150-12-G1A2	LM-150-24-G1A2
OUTPUT	Output Voltage	12Vdc	24Vdc
	Output Voltage Range	12Vdc ±0.5Vdc	24Vdc ± 0.5Vdc
	Output Current	Max. 12.5A	Max. 6.25A
	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	≥ 102%	
	Ripple & Noise	Switch ripple ≤ 200mV, noise ≤ 800mV	Switch ripple ≤ 200mV, noise ≤ 500mV
INPUT	Dimming Interface	0-10V(1-10V/10V PWM/RX), Push DIM	
	Interface consumption	<0.05mA @ 0-10V	
	Input Voltage	220-240Vac	
	Frequency	50/60Hz	
	Input Current	Max. 0.75A/230Vac	
	Power Factor	PF>0.98/230Vac, at full load	
	THD	≤5% at 230Vac, at full load	
	Efficiency (typ.)	92%	93%
	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	±0.03%/°C (0-50°C)	
	Vibration	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.	
PROTECTION	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥ 110°C, auto recovers.	
	Over Voltage Protection	Shut down the output when non-load voltage ≥ 16V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage ≥ 28V, 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.	
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac	
	Isolation Resistance	I/P-O/P: 100MΩ/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	352×43×30mm(L×W×H)	
	Packing	355×44×33mm(L×W×H)	
	Weight[G.W.]	300g±10g	

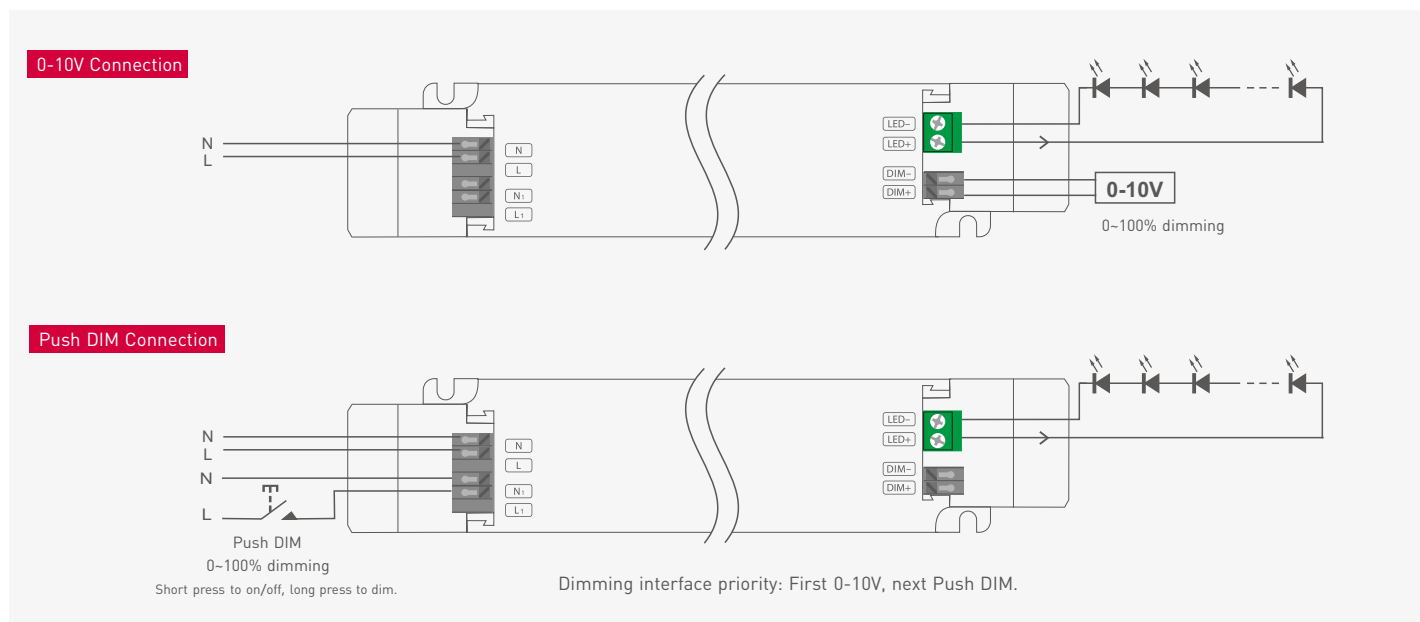
* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The instantaneous surge current will be several times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccup flickering).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

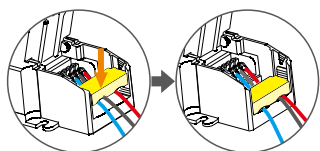


Wiring Diagram

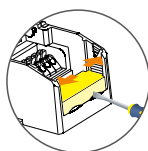


Application of Protective Cover

Wire pressing board:

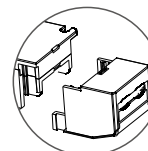
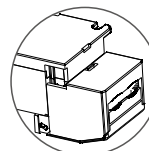
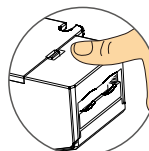


Push the wire pressing board to fix the wire.



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.

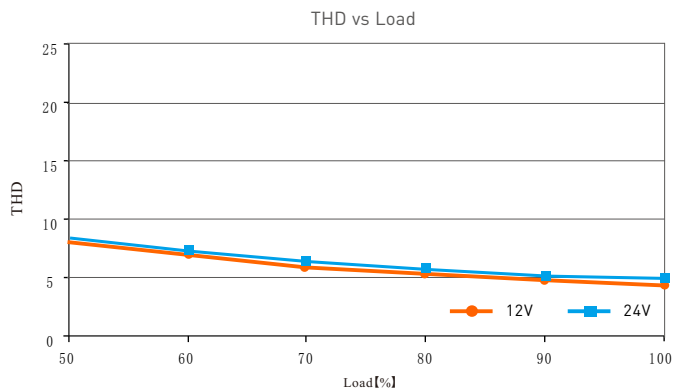
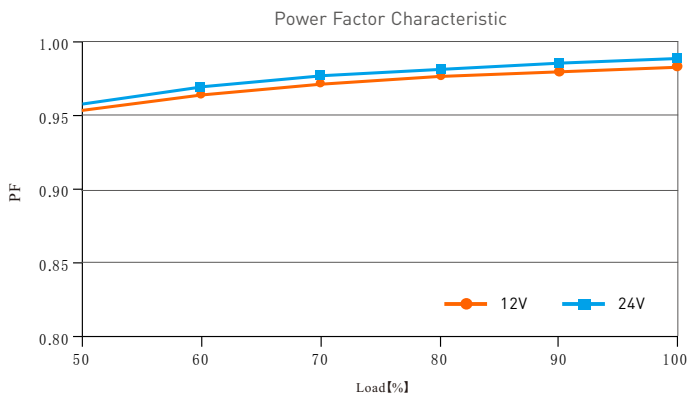
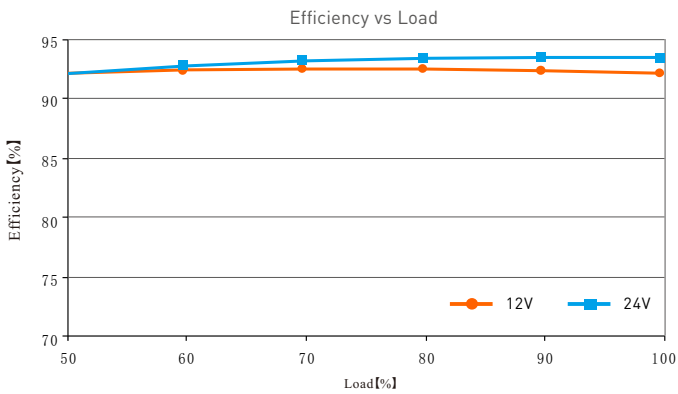
Push Dimming



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.

Relationship Diagrams



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