LED Driver 0-10V 36W 24V - LM-36-24-G1A2

General

2814200



Product Type	Constant Voltage Driver		
Length (mm)	210		
Width (mm)	43		
Height (mm)	30		
Housing Color	White		
Housing Material	Plastic		
Mounting	Surface mounted		
Weight (g)	210		
Wire Strip Length	5mm		
Wire Type	2.5mm2		
Electronics			
Input Domain	AC		
Input Voltage	200 ~ 240V AC		
Output Voltage	24V DC		
Output Current Max. (A)	1.5		
Output Power Range (W)	0~36		
Output Power (W)	36W @ 24V		
Power Supply	Internal		
LED Outputs	1		
Efficiency	88%		
Leakage current max. (mA)	0.5		
Standby Power Loss Max. (W)	0.5		
Input Frequency	50 ~ 60Hz		
Inrush Current	25A @ 230VAC		
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Lighting			
Color Range	Single Color		
Control			
Output Signal	PWM-CV		
Control	0-10V		
Dimming Range	0~100%		
Dimming Curve	Linear		
Driver Configuration	Software		
Number of Channels	1		
Protection			
Reverse Polarity	Yes		
LED Output Short	Yes		
Overload	Yes		
Restart after Protection	Yes		
Protection Class	II		
Environmental			
Operating Temperature	-30 ~ +55 °C		
Ingress Protection	IP20		
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CE IP20 5^{year}

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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Technical Specs

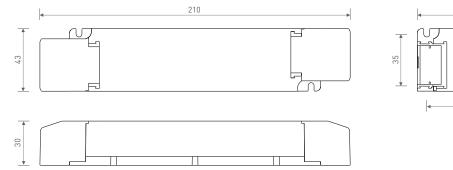
Model		LM-36-24-G1A2			LM-36-12-G1A2		
	Output Voltage	24Vdc			12Vdc		
	Output Voltage Range	24Vdc ±	0.5Vdc		12Vdc ± 0.5Vdc		
	Output Current	Max. 1.5	A		Max. 3A		
	Output Power	Max. 36\			1		
	Output Power Range	0~36W					
OUTPUT	Strobe Level		quency exemption level	L.			
INPUT	PWM Frequency	3600Hz					
	Dimming Range	0~100%, dimming down to 0.1%					
	Overload Power Limitation	5 102%					
	Ripple & Noise	Switch ripple≤200mV, noise≤500mV Switch ripple≤200mV, noise≤800mV					
	Dimming Interface	0-10V[1-10V/10V PWM/RX], Push DIM					
	Interface Consumption	<0.05mA @ 0-10V					
	Input Voltage	<0.05mA id 0-10V 200-240Vac / 200-280Vdc					
	Frequency	200-240vac / 200-260vac					
	Input Current	50/60HZ Max. 0.26A/230Vac					
	Power Factor THD	PF>0.95/230Vac, at full load					
	Efficiency (typ.)	<8% at 230Vac, at full load 88% 87%					
	Standby Power Loss				0770		
	Inrush Current(typ.)	<0.5W					
		Cold start 25A at 230Vac					
	Control Surge Capability	L-N:2KV					
	Leakage Current	Max. 0.5					
	Working Temperature						
	Working Humidity	20 - 95%RH, non-condensing					
ENVIRONMENT	Storage Temperature Humidity						
	Temperature Coefficient	±0.03%/°C (-20-50°C)					
	Vibration	10-500Hz, 26 12min./1cycle, 72 min for X, Y and Z axes respectively.					
	Over-heat Protection	Intelligently adjust or turn off the output current if the PCB temperature ≥110°C, and recover automatically.					
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%, and recover automatically.					
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically.					
	Withstand Voltage	I/P-0/P:3750Vac					
	Insulation Resistance		-0/P:500VdC/25°C/70%RH≥100MΩ				
	Safety Standards	CCC	China	GB19510.1, GB19510.14			
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493			
		CE	European Union	EN61347-1, EN61347-2-13, EN62384			
		KC	Korea	KC61347-1, KC61347-2-13			
		RCM	Australia	AS61347-1, AS61347-2-13			
		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384			
SAFETY & EMC		СВ	CB member states	IEC61347-1, IEC61347-2-13			
LING		EAC	Russia	IEC61347-1, IEC61347-2-13			
		CCC	China	GB/T17743, GB17625.1			
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547			
	EMC Emission	KC	Korea	KN15, KN61547			
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61547			
		EAC	Russia	IEC62493, IEC61547, EH55015			
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547					
	Strobe Test Standard	IEEE 17	39				
	Weight(G.W.)	210g±1					
	Dimensions	210×43×30mm(L×W×H)					
OTHERS	Package Size	213×44×33mm(L×W×H)					
	Carton Size			440×218×235mm[L×W×H] 60pcs/ctn 13.4kg±5%/ctn			

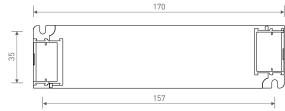
* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When 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. 1



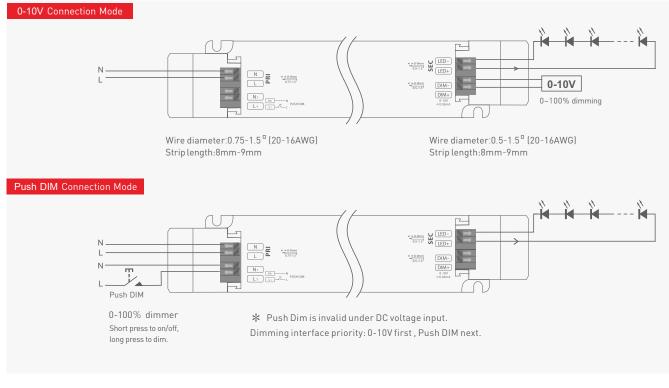
Product Size

Unit: mm





Wiring Diagram



Push DIM

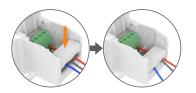


- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the brightness level goes to the opposite direction.
- Dimming memory: Go to the brightness level adjusted previously when lights are turned on.

Reset switch

Protective Housing Application Diagram

Tension plate



Push the tension plate down to fix the electric wires.

Push the side plate outwards and remove the tension plate by prying it up with a tool at the same time.

Remove the protective housing

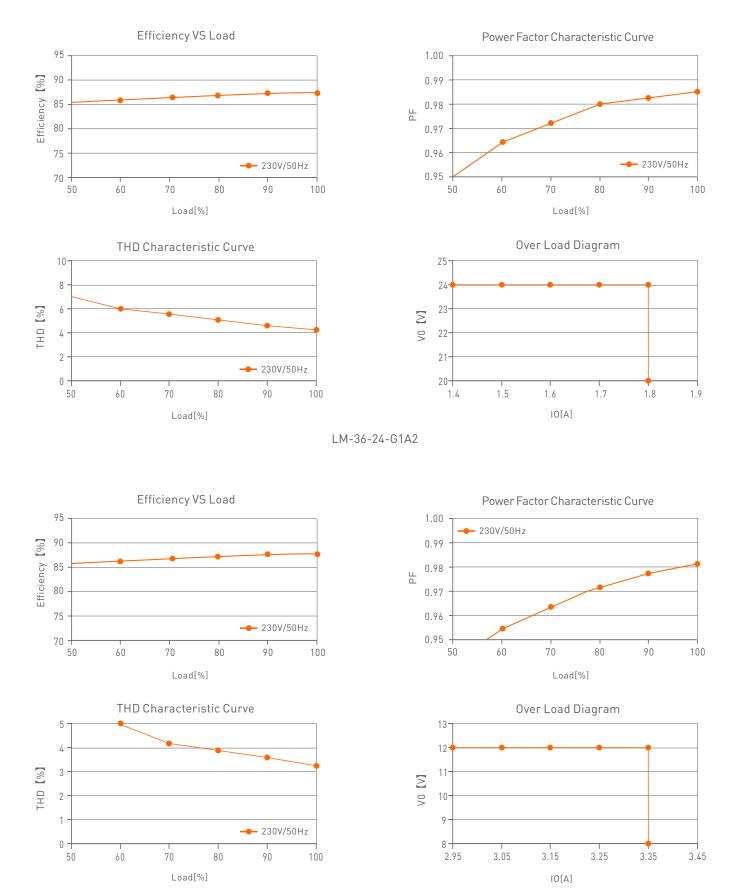


Pull the bottom left and right from the bottom to remove it.



LM-36-24-G1A2 0-10V LM-36-12-G1A2 Push DIM

Relationship Diagrams

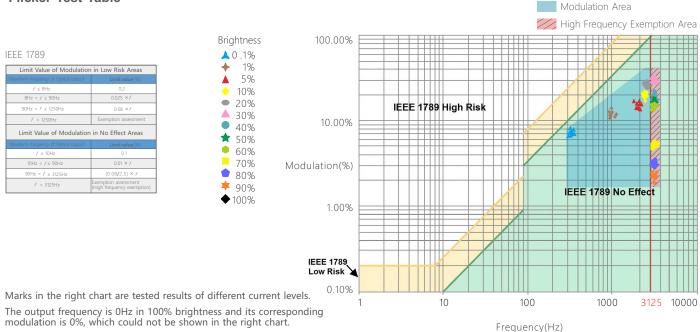


LM-36-12-G1A2



0-10V Pu<u>sh DIM</u>

Flicker Test Table



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.

Update Log

Version	Updated Time	Update Content	Updated by
A0	2021.03.22	Original version	Xu Shujun