

General

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	85%	
Leakage current max. (mA)	0.5	
Standby Power Loss Max. (W)	0.5	
Input Frequency	50 ~ 60Hz	
Inrush Current	30A @ 230V AC	

Lighting

Color Range	Single Color
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Control

Output Signal	PWM-CV
Control	TRIAC
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	

Disclaimer

CE IP20 2 year warranty

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 Driver (Constant Voltage)

- Small size and light weight. Adopt SAMSUNG/COVESTRO V0 flame resistant polycarbonate protective housings.
- The design of dismountable end cap allows you to adjust the length of housing depending on your needs.
- With soft-on and fade in function, visual more comfortable.
- Dimming range: 0~100%, dimming down to 0.1%.
- 0-100% flicker-free, High frequency exemption level.
- Leading edge (Triac), Trailing edge (ELV) phase-cut and Push DIM.
- The secure and reliable design for signal isolation.
- . Innovative thermal management technology intelligently protects the lifetime the driver.
- Over load / Over temp. / Short circuit / Over voltage protection, recover automatically.
- \bullet Suitable for internal lights application for $\mathbb{I}/\mathbb{I}/\mathbb{I}\mathbb{I}$.
- Up to 50000-hour life time.
- 5 year warranty (Rubycon capacitor).



Dimmable: 0.1%-100%





Triac/ELV

Push DIM











Technical Specs

Model		LM-36-24-G1T2			LM-36-12-G1T2	
	Output voltage	24Vdc			12Vdc	
	Output voltage range	24Vdc ±	0.5Vdc		12Vdc ± 0.5Vdc	
	Output current	Max. 1.5	A		Max. 3A	
Ī	Output power	Max. 36	W			
OUTPUT	Output power range	0~36W				
	Strobe level	High frequency exemption level.				
	Dimming range	0~100%, dimming down to 0.1%				
	Overload power limitation	≥102%				
	Ripple & Noise	≤200mV				
İ	PWM frequency	3600Hz				
	Dimming interface	Leading edge (Triac), Trailing edge (ELV) phase-cut and Push DIM.				
İ	Input voltage	220-240Vac				
Ì	Frequency	50/60Hz				
İ	Input current	≤0.2A/2				
	Power factor		/230Vac , at full load			
INPUT	THD		NTHD<10%, at full loa	ad		
	Efficiency (typ.)	85%	,	·	84%	
ľ	Inrush current(typ.) Cold start 30A at 230Vac					
ŀ	Control surge capability	L-N: 2k				
ŀ	Leakage current	Max. 0.				
	Working temperature					
ŀ	Working humidity	ta: -20 ~ 50°C tc: 90°C				
ENVIRONMENT	Storage Temperature humidity	20 ~ 95%RH, non-condensing				
	Temperature coefficient	-40°C ~ 80°C, 10~95%RH +0.03%/°C[0_50°C]				
	Vibration	±0.03%/°C[0-50°C] 10~500Hz, 2G 12min./1cycle, 72 min for X, Y and Z axes respectively .				
$\overline{}$	Over-heat protection		-		110°C and recover automatically	
ŀ	Over load protection	Intelligently adjust or turn off the output current if the PCB temperature ≥110°C, and recover automatically . Shut down the output when current load≥102%, and recover automatically .				
PROTECTION	Short circuit protection	Shut down the output when current load > 102%, and recover automatically . Shut down automatically if short circuit occurs, and recover automatically .				
ŀ	·		Shut down the output when non-load voltage ≥26V, Shut down the output when non-load voltage ≥13V,			
	Over voltage protection		re-power on to recover after fault condition is removed. re-power on to recover after fault condition is removed.			
	Withstand voltage	I/P-0/P:	I/P-0/P: 3750Vac			
	Isolation resistance	I/P-0/P:	100MΩ/500VDC/25°			
		ccc	China	GB19510.1, GB19510.14		
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493		
	Safety Standards	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		
LIVIO		EAC	Russia	IEC61347-1, IEC61347-2-13		
		ccc	China	GB/T17743, GB17625.1		
	EMC Emission	CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN	161547	
		KC	Korea	KN15, KN61547		
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN	61547	
		EAC	Russia	IEC62493, IEC61547, EH55015		
	EMC immunity	EN61000-4-2,3,4,5,6,8,11, EN61547				
ŀ		IEEE 1789				
	Strobe test standard	IEFF 17				
	Weight(G.W.)	210g±10	g			
OTHERS -		210g±10 210×43×				

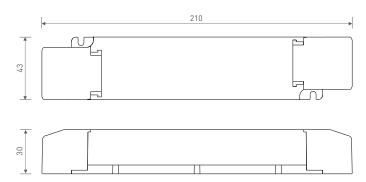
^{*} The driver is suitable for connecting resistor current-limiting LED fixture [e.g. LED strip]. The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When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





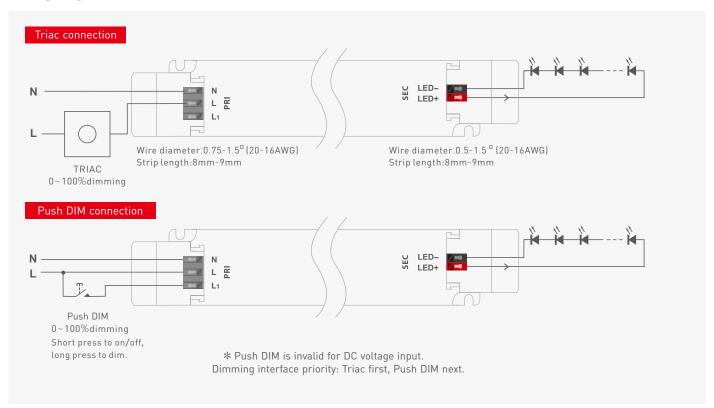
Dimensions

Unit: mm





Wiring diagram



Push Dimming



Reset switch

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the brightness goes to the opposite direction.
- Dimming memory: The lights will return to its previous brightness value when short press on PUSH DIM button.

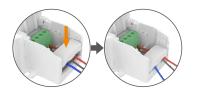
 Power on again after power cut, the output brightness is subjected to the input voltage of drivers.



LTECH

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



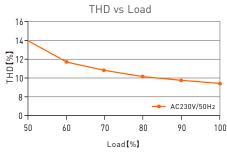


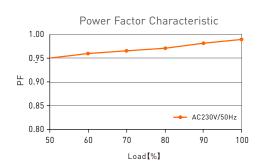


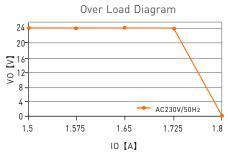
Pull the bottom left and right from the bottom to remove it.

Relationship diagrams



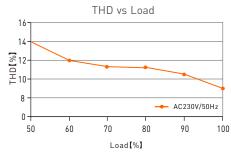


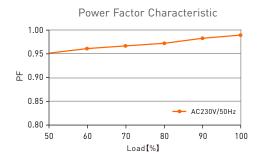


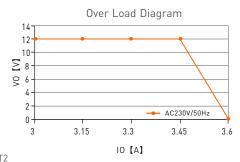


LM-36-24-G1T2



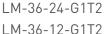






LM-36-12-G1T2

Modulation Area



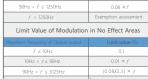
Frequency(Hz)

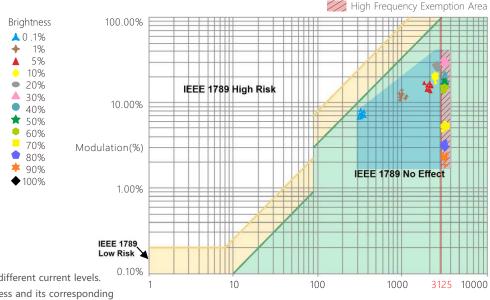


Flicker Test Table

ITECH







Marks in the right chart are tested results of different current levels.

The output frequency is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

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
Α0	2021.04.12	Original version	Xu Shujun