LED Driver TRIAC 36W 24V - LM-36-24-G1T2

2843200

Constant Voltage Driver



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		
	36W @ 24V		
Output Power (W) 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		
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			
Environmental	-30 ~ +55 °C		
Operating Temperature			
Ingress Protection	IP20		
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CE IP20 2^{year}

Disclaimer

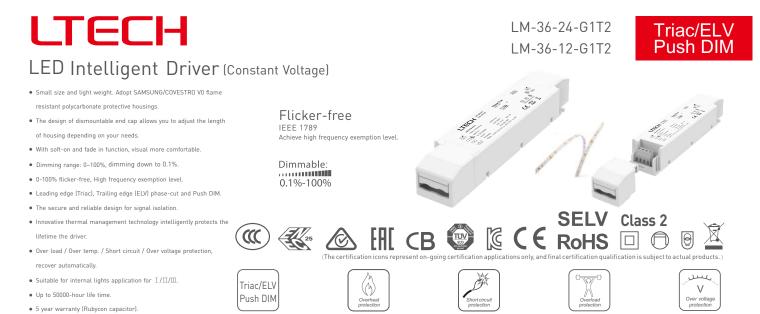
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General Product Type

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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	iΑ		Max. 3A	
	Output power	Max. 36	W		1	
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				
	PWM frequency	3600Hz				
	Dimming interface	Leading edge (Triac), Trailing edge (ELV) phase-cut and Push DIM.				
	Input voltage	220-240Vac				
	Frequency	50/60Hz				
	Input current					
	Power factor	≤0.2A/230Vac PF>0.95/230Vac, at full load				
INPUT	THD		aTHD<10%, at full loa	ad		
	Efficiency (typ.)	85%			84%	
	Inrush current(typ.)		art 30A at 230Vac			
	Control surge capability	L-N: 2k				
	Leakage current	Max. 0.				
	Working temperature		~ 50°C tc: 90°C			
	Working humidity		%RH, non-condensing			
ENVIRONMENT	Storage Temperature humidity	-40°C ~ 80°C, 10-95%RH				
	Temperature coefficient					
	Vibration		±0.03%/°C[0-50°C]			
	Over-heat protection	10-500Hz, 2G 12min./1cycle, 72 min for X, Y and Z axes respectively . Intelligently adjust or turn off the output current if the PCB temperature ≥110°C, and recover automatically .				
	Over load protection	Shut down the output when current load≥102%, and recover automatically .				
PROTECTION	Short circuit protection	Shut down the output when current toda = 102%, and recover automatically . Shut down automatically if short circuit occurs, and recover automatically .				
				Shut down the output when non-load voltage ≥13V,		
	Over voltage protection		Shut down the output when non-load voltage≥26V, re-power on to recover after fault condition is removed. Shut down the output when non-load voltage ≥13V, 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°	C/70%RH		
		CCC	China	GB19510.1, GB19510.14		
	Safety Standards	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		
SAFETY &		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384		
EMC		СВ	CB member states	IEC61347-1, IEC61347-2-13		
	EMC Emission	EAC	Russia	IEC61347-1, IEC61347-2-13		
		CCC	China	GB/T17743, GB17625.1		
		CE	European Union	uropean Union EN55015, EN61000-3-2, EN61000-3-3, EN61547		
		KC Korea KN15, KN61547				
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN	161547	
		EAC Russia IEC62493, IEC61547, EH55015				
	EMC immunity	EN61000-4-2,3,4,5,6,8,11, EN61547				
	Strobe test standard	IEEE 1789				
	Weight(G.W.)	210g±10)g			
07115-5	Dimension	210×43×	(30mm(L×W×H)			
OTHERS	Dimension Package Size		30mm(L×W×H) 33mm(L×W×H)			

* 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.

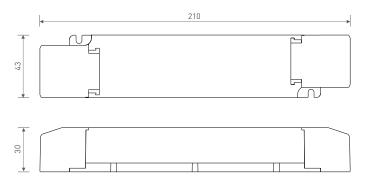


LM-36-24-G1T2 LM-36-12-G1T2



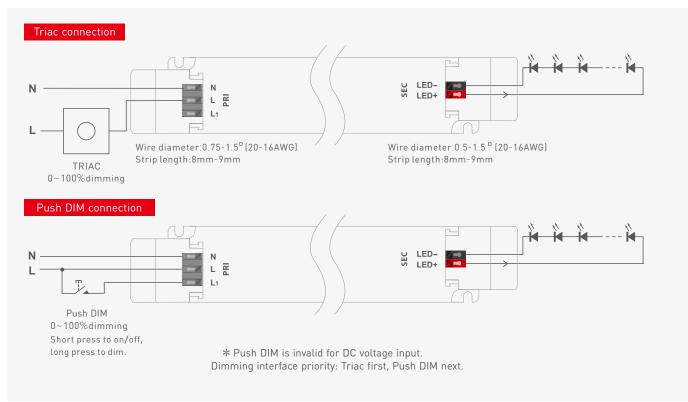
Dimensions







Wiring diagram



Push Dimming

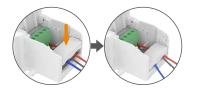


- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the brightness goes to the opposite direction.
- Dimming memory: The lights will return to its previous brightness value when short press on PUSH DIM button. Power on again after power cut, the output brightness is subjected to the input voltage of drivers.



Protective Housing Application Diagram

Tension plate



Push the tension plate down to fix the electric wires.

Relationship diagrams

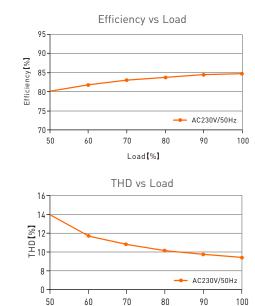


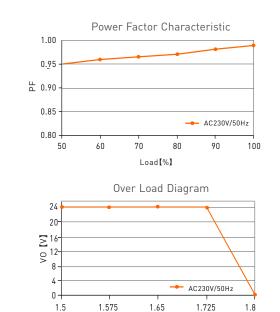
Push the side plate outwards and remove the tension plate by prying it up with a tool at the same time.

Remove the protective housing



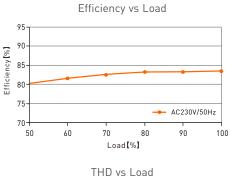
Pull the bottom left and right from the bottom to remove it.



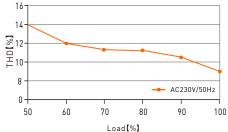


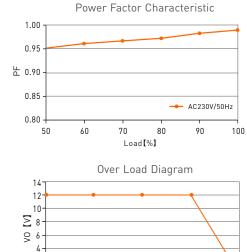
10 (A)





Load[%]





- AC230V/50Hz

3.45

3.6

2 ·

0 -

3

3.15

3.3

10 [A]



Modulation Area

Triac/ELV Push DIM

Flicker Test Table

					🥢 High Frequency Exemption Area
		Brightness	100.00% E		
IEEE 1789		▲ 0 .1%	100.0070		
Limit Value of Modulati					
Waveform frequency of Optical output $f \le 8Hz$	Limit value (%) 0.2	▲ 5%	-		
8Hz < f ≤ 90Hz	0.22 0.025 × f	, 10%	-		
90Hz < f ≤ 1250Hz	0.08 × f	• 20%		IEEE 1789 High Risk	
f > 1250Hz	Exemption assessment	A 30%	10.000		
	Limit Value of Modulation in No Effect Areas	• 40%	10.00%		
Waveform frequency of Optical output		📌 50%			
f ≤ 10Hz	0.1	• 60%			
10Hz < f ≤ 90Hz	0.01 × f	70%	Modulation(%)		
$90Hz < f \le 3125Hz$	(0.08/2.5) × f	● 80%			
f > 3125Hz	Exemption assessment (High frequency exemption)	* 90%			
		◆100%			IEEE 1789 No Effect
		• 100 /8	1.00%		
			-		
			-		
			-		
			IEEE 1789		
			Low Risk 🔌		
			0.10%		
Marks in the right	t chart are tested	l results of different curre	nt levels.	10	
initiality in the right	condition concourse				
				10	100 1000 <u>3125</u> 10000
		0% brightness and its co t be shown in the right c			100 1000 <u>3125</u> 10000 ency(Hz)

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	2021.04.12	Original version	Xu Shujun	