LM-75-12-G2D2

Iintelligent Tunable White LED Driver (Constant Voltage)

- Small size and light weight. The housing is made from V0 flame retardant PC materials from SAMSUNG/C0VESTR0.
- The clamshell design and screwless type for strain-relief. The design of dismountable end cap allows you to adjust the length of housing depending on your needs.
- Adopt constant power design that can adjust different color temperature while brightness remains the same.
- Adjustable color temperature: 1000-10000K (factory default: 2700-6500K)
- Dimming from 0~100%, down to 0.1%.

LTECH

- 2 SELV output channels with common anode.
- The secure and reliable design for signal isolation.
- Overheat, over voltage , overload, short circuit protection and automatic recovery.
- + Suitable for Class I / II / III indoor light fixtures.
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor).



Specification

Model		LM-75-1	2-G2D2		LM-75-24-G2D2	LM-100-24-G2D2		
OUTPUT	Output Voltage	12Vdc			24Vdc			
	Output Voltage Range	12Vdc ±0	.5Vdc		24Vdc ±0.5Vdc	24Vdc ±0.5Vdc		
	Output Current	Max. 6.25A			Max. 3.125A	Max. 4.17A		
	Output Power	Max. 75W				Max. 100W		
	Output Power Range	0~75W				0~100W		
	Strobe Level	High frequency exemption level.						
	Dimming Range	0~100%, dimming depth: Max. 0.1%						
	Overload Power Limitation	≥102%						
	Ripple & Noise	≤200mV			≤300mV			
	PWM Frequency	3600Hz						
	Dimming Interface	DALI-2 DT6/DT8, Push DIM/CCT						
	Input Voltage	220-240Vac						
	Frequency	50/60Hz						
	Input Current	Max. 0.4A/230Vac				Max. 0.5A/230Vac		
INPUT	Power Factor	PF>0.97/230Vac, at full load				PF>0.98/230Vac, at full load		
	THD	≤14% at 230Vac, at full load				≤12% at 230Vac, at full load		
	Efficiency (typ.)	91%			92%	93%		
	Inrush Current(typ.)	Cold start 30A at 230Vac Cold start 45A at 230Vac						
	Control surge capability	L-N:2KV						
	Leakage Current	Max. 0.5mA						
	Working Temperature	ta: -20°C ~ 50°C tc: 80°C						
	Working Humidity	20 ~ 95%RH, non-condensing						
ENVIRONMENT	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						
	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, auto recovers						
PROTECTION	Over Voltage Protection	Shut down the output when non-load voltage ≥13V, re-power on to recover after fault condition is removed Shut down the output when non-load voltage≥26V, 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	Shut down automatically if short circuit occurs, auto recovers.						
	Withstand Voltage	I/P-0/P: 3750Vac						
	Isolation Resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH						
	Safety Standards	CCC	China	GB19510.1, GB	19510.14			
		СВ	CB member states	IEC61347-1, IEC61347-2-13				
		RCM	Australia	AS 61347-1, AS 61347-2-13				
		UKCA	Britain	BS EN 61347-2-13:2014+A1:2017, BS EN 61347-1:2015+A1:2021				
SAFETY		TUV	Germany	EN61347-1, EN61347-2-13, EN62493				
& EMC		CE	European Union	EN61347-1, EN61347-2-13, EN62384				
EMC	EMC Emission	CCC	China	GB/T17743, GB17625.1				
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61547				
		UKCA	Britain	BS EN IEC 5501	5:2019/A11:2020, BS EN 61547:2009, BS EN IEC	51000-3-2:2019, BS EN 61000-3-3:2013/A1:2019		
		CE European Union EN55015, EN61000-3-2, EN61000-3-3, EN61547						
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547						
	Strobe Test Standard	IEEE 1789						
OTHERS	Dimension	293×43×30mm(L×W×H)						
	Packing	296×44×33mm[L×W×H]						
	Weight(G.W.)	300g±10g						

* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The 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 www.ltech-led.com





Dimensions

Unit: mm



Wiring Diagram



Push DIM/CCT



DIM

- 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.

Reset switch

2

ССТ

- Color temperature adjustment: Long press.
- With every other long press, the color temperature level goes to the opposite direction. • Color temperature memory: Color temperature will be the same as previously adjusted
 - when turning off and on again.





Protective Housing Application Diagram

Tension plate



tool.



1. Pry up the protecting housing with a screwdriver as wiring in the side plate position with a diagram shows.

2. Connect to electrical wires



3. Press down the tension plate to fix the the electrical wires, then close the protective housing.

Remove the protective housing



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

Installation Precautions



Please do not stack the products. The distance between two products should be >15cm so as not to affect heat dissipation and the lifespan of the products.



Please not place the products on LED drivers. The distance between the product and the driver should be >15cm so as not to affect heat dissipation and shorten the lifespan of the products.

Relationship Diagrams



LM-75-12-G2D2









LM-100-24-G2D2





Flicker Test Form

	IEEE 1789						
Limit of Modulation in low risk area							
<i>f</i> ≤ 8Hz	0.2						
8Hz < <i>f</i> ≼ 90Hz	0.025 × f						
90Hz < <i>f</i> ≤ 1250Hz	0.08 × f						
f > 1250Hz	Exemption assessment						
Limit of Modulation in no effect area							
<i>f</i> ≤ 10Hz	0.1						
10Hz < f ≤ 90Hz	0.01 × f						
90Hz < <i>f</i> < 3125Hz	[0.08/2.5]×f						
f > 3125Hz	Exemption assessment (High frequency exemption)						



Attentions

- This product must be installed and adjusted by a qualified professional.
- This product is 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 life the product. Please install the product in a environment with good ventilation.
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
- Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.
- * 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
AO	2020.09.10	Original version	Liu Weili
A1	2021.04.30	Add product feature description; update product silk screen, update TUV certification icon	Liu Weili
A2	2021.12.10	Update product silk screen	Liu Weili
A3	2022.06.07	Update protective housing application diagram	Liu Weili
A4	2024.02.19	Updated color temperature range	Li Siyu