

Intelligent LED Driver (Constant Voltage)

- Small size and light weight. The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTRO.
- 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.
- Dimming interface: 0-10V(1-10V/10V PWM/RX), Push DIM.
- Automatic recognition of 0-10V, 1-10V input signal.
- Dimming from 0~100%, down to 0.1%.
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- High frequency exemption level.
- Ultra-low consumption of 0-10V ports: < 0.05mA.
- Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Innovative thermal management technology intelligently protects the life of the
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor).

Flicker-Free

IEEE 1789 High frequency exemption level

Dimmable: 1:1000

5 in 1 dimming

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

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



























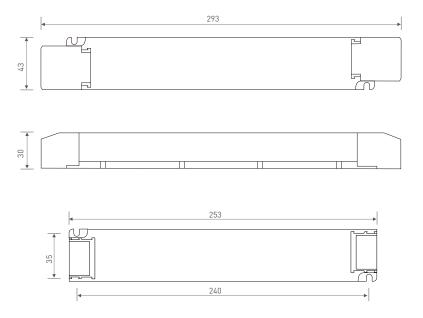
Specification

Model		LM-75	-12-G1A2		LM-75-24-G1A2	LM-100-24-G1A2		
	Output Voltage	12Vdc			24Vdc	·		
OUTPUT	Output Voltage Range	12Vdc ±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	0-10V(1-10V/10V PWM/RX), Push DIM						
	Input Voltage	220-240Vac						
INPUT	Frequency	50/60Hz						
	Input Current	Max. 0.4A/230Vac Max. 0.5A/230Vac						
	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.)		rt 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						
NVIRONMENT	Storage Temp., Humidity	20 ~ 95%RH, non-condensing -40°C ~ 80°C, 10~95%RH						
ENVIRONMENT	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						
	Over Voltage Protection	Shut down the output when non-load voltage ≥ 13V, re-power on to recover after fault condition is removed is removed.						
PROTECTION	0 1 10 1 1	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		0/P: 100M\(\Omega/500V\)DC/25°C/70\(\mathreal{R}\)H					
	Safety Standards	CCC	China	GB19510.1, GB				
		CB	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		I 61347-2-13, EN 62493			
EMC		CE	European Union	EN 61347-1, EN 61347-2-13, EN 62384 GB/T 17743, GB 17625.1				
	EMC Emission	000	China					
		RCM	Australia		1000-3-2, EN 61000-3-3, EN 61547	EN JEG (4000 0 0 0040 DC EN /4000 0 0 0040 M4 00		
		UKCA	Britain			EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A1:20		
	FMC Iit-	CE European Union EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547						
	EMC Immunity	EN 61000-4-2,3,4,5,6,8,11 EN 61547						
	Strobe Test Standard	IEEE 1789						
OTHERS	Dimension	293×43×30mm(L×W×H)						
OTHERS	Packing	296×44×33mm(L×W×H)						
	Weight(G.W.)	300g±10g - 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 fixture						



Dimensions

Unit: mm

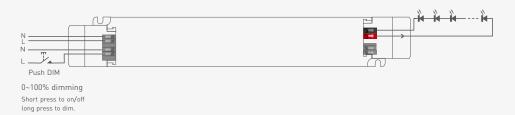


Wiring Diagram



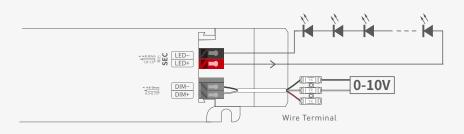


Push DIM Connection



Dimming interface priority: First 0-10V, next Push DIM.

Wire Terminal Connection (used in signal port only)



Push DIM



LTSYS

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: Brightness will be the same as previously adjusted when turning on again.

Protective Housing Application Diagram

Tension plate



1. Pry up the protecting housing in the side plate position with a



2. Connect to electrical wires with a screwdriver as wiring diagram shows.



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

Remove the protective housing

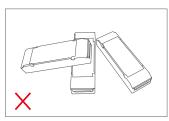


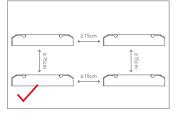




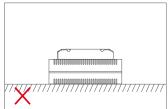
Pull the housing left and right from the bottom to remove it.

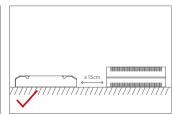
Installation Precautions





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

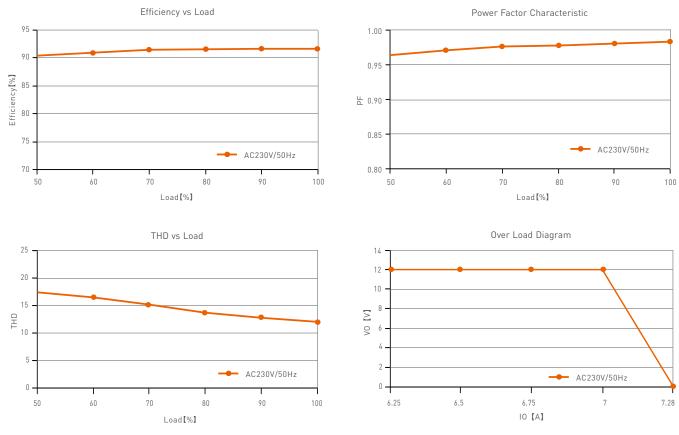




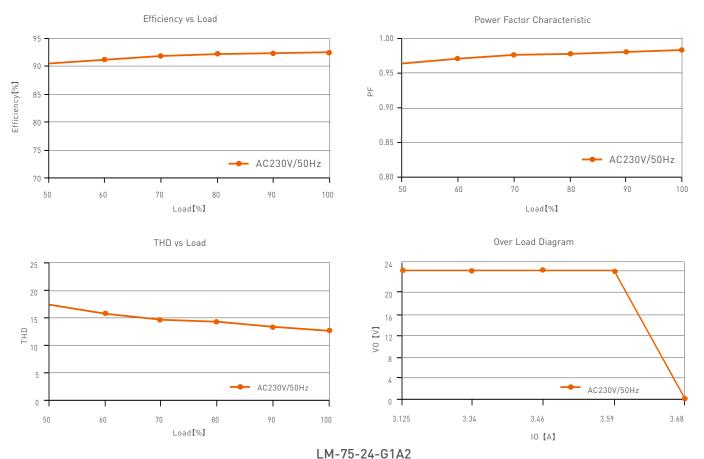
Please not place the products on LED drivers. The distance between the product and the driver should be $\geqslant 15 \text{cm}$ so as not to affect heat dissipation and shorten the lifespan of the products.



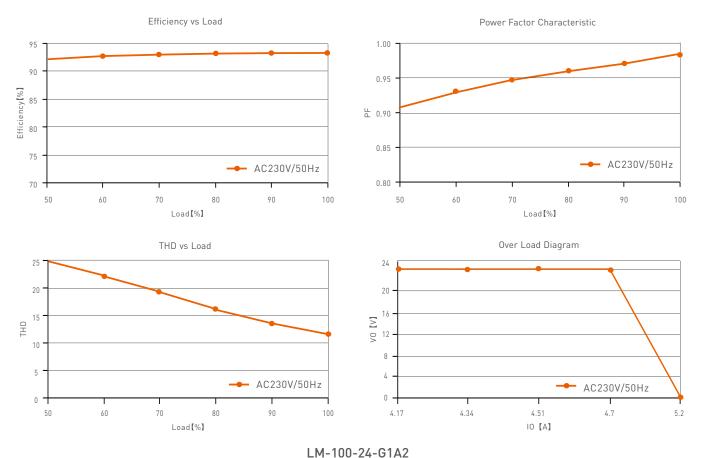
Relationship Diagrams



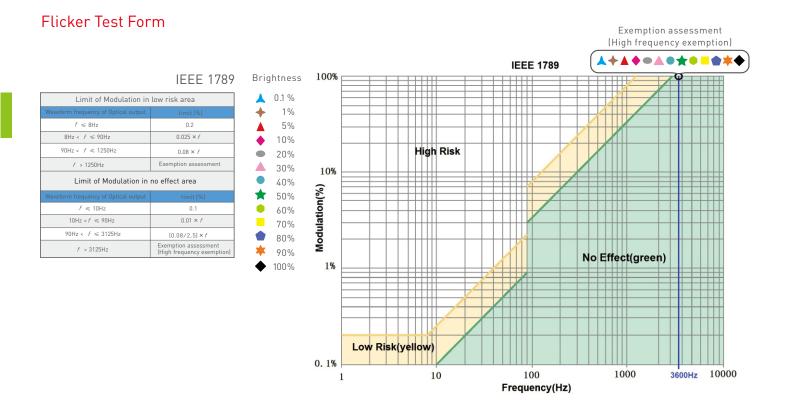
LM-75-12-G1A2







LIVI-100-24-01A



Attentions

ITSYS

- · 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
Α0	2019.03.12	Original version	Huang Yunting
A1	2020.01.09	Add flicker test form	Huang Yunting
A2	2020.03.18	Add product description	Huang Yunting
A3	2021.06.08	Added 5-year warranty	Huang Yunting
Α4	2021.12.10	Update product silk screen	Liu Weili
A5	2022.05.20	The connection diagram of the terminal with wire is added to the wiring diagram	Liu Weili
A6	2025.11.15	Update company logo and silkscreen printing	Haipeng Li