

Intelligent Tunable White LED Driver (Constant Voltage)

- 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.
- Change the dimming method, PWM frequency and other parameters via the APP.
- · Automatically recognize 0-10V and 1-10V input signal.
- Ultra-low consumption of 0-10V ports <0.05mA.
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- The whole dimming process is flicker-free with high frequency exemption level.
- Dimming from 0-100%, down to 0.01%.
- Comply with the EU's ErP Directive, networked standby<0.5W.
- Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Suitable for Class I / II / III indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor).



























Technical Specs

Model		LM-24)-24-G2A2				
Output Type		Constant voltage					
Features	Dimming Interface		1-10V, 10V PWM, RX),	PUSH DIM/CCT			
	Output Feature	Isolation					
	Protection Grade	IP20					
	Insulation Grade	Class I	(Suitable for class I/ II	/III light fixtures)			
оитрит	Output Voltage	24Vdc					
	Output Voltage Range	24Vdc±0.5Vdc					
	Output Current	Max. 10A					
	Output Power	Max. 240W					
	Dimming Range	0~100%, down to 0.01%					
	Ripple(maximum)	200mVp-p					
	Voltage Accuracy	±5%					
	PWM Frequency	<22000Hz (NFC setting range 300-20000Hz)					
	DC Voltage Range	200-250Vdc					
	AC Voltage Range	220-240Vac					
	EoFv	99.6%					
	Input Voltage	220-240Vac					
	Frequency	50/60Hz					
	Input Current	Max. 1.18A/230Vac					
INPUT	Power Factor	PF>0.99/230Vac, at full load					
	THD	THD≤5%@230Vac, at full load					
	Efficiency (Typ.)	94%					
	Inrush Current	Cold start 55A(Test twidth=1200us tested under 50% peak)/230Vac					
	Anti Surge	L-N: 2KV					
	Leakage Current		Max. 0.5mA				
	Working Temperature		~ 45°C tc: 86°C				
510//DO1145117	Working Humidity	20 – 95%RH, non-condensing					
ENVIRONMENT	Storage Temperature/Humidity	-40 ~ 80°C/10~95%RH					
	Temperature Coefficient Vibration	±0.03%/°C(0-50°C)					
	Overload Protection	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively					
	Overheat Protection	Shut down the output when rated power>102%, auto recovers Intelligently adjust or turn off the output current if the PCB temperature >110°C, and recover automatically					
PROTECTION	Overneat Frotection	Shut down the output when voltage \$28V, and recover automatically					
	Overvoltage Protection	Shut do	wn the outnut when vo	https://www.nd.recover.automatically			
	Overvoltage Protection						
	Short Circuit Protection	Enter h	iccup mode if short cir	oltage>28V, and recover automatically cuit occurs, and recover automatically			
	-	Enter h	iccup mode if short cir P: 3750Vac	cuit occurs, and recover automatically			
	Short Circuit Protection Withstand Voltage	Enter h	iccup mode if short cir P: 3750Vac P: 100MΩ/500VDC/25	cuit occurs, and recover automatically °C/70%RH			
	Short Circuit Protection Withstand Voltage	Enter h I/P-0/ I/P-0/	iccup mode if short cire P: 3750Vac P: 100MΩ/500VDC/25 China	cuit occurs, and recover automatically			
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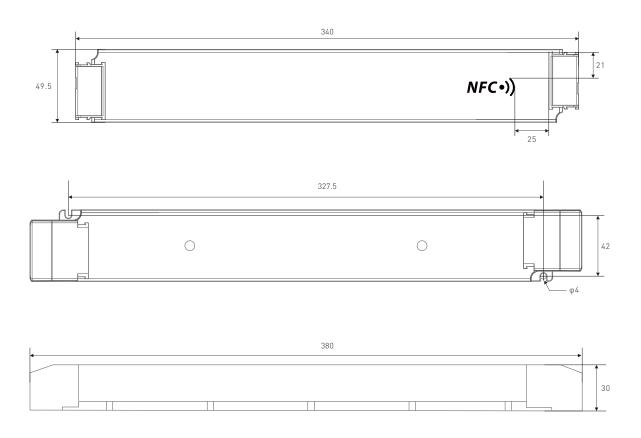
The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), so that we can prepare them with special procedures



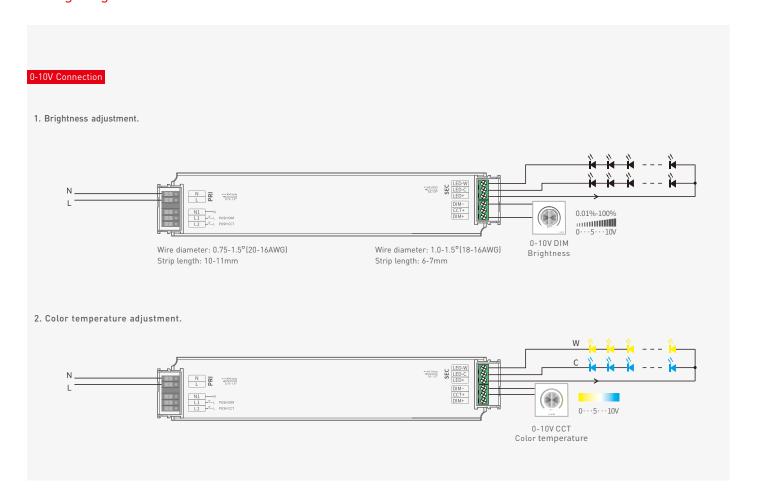
LTECH

Product Size

Unit: mm



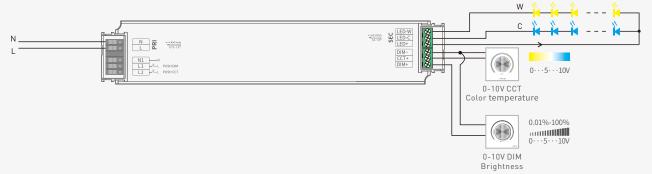
Wiring Diagram









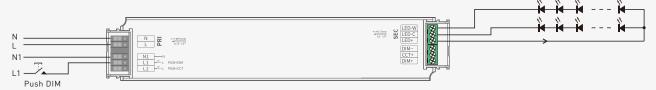


 ${\it 4. \ Brightness \ and \ color \ temperature \ adjustment \ simultaneous.}$



Push DIM/CCT Connection

1. Brightness adjustment.



2. Color temperature adjustment.



 ${\it 3. Brightness \ and \ color \ temperature \ adjustment \ respective.}$



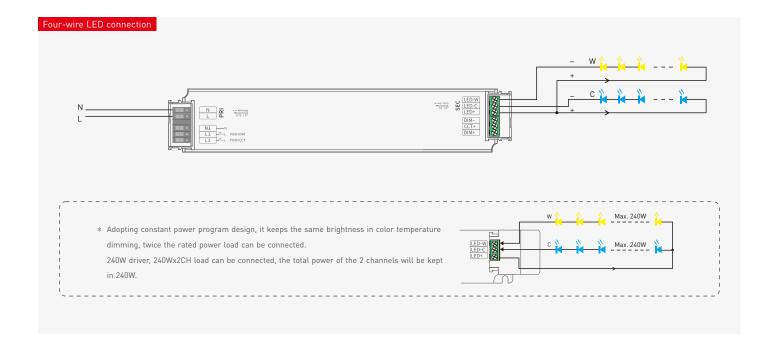
4. Brightness and color temperature adjustment simultaneous.



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







Push DIM/CCT



Reset switch

DIM

- On/off control: Short press.
- Stepless dimming: Long press.
- \bullet 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.

CCT

- Color temperature adjustment: Long press.
- With every other long press, color temperature go to the opposite direction.
- Color temperature memory: Color temperature will be the same as previously adjusted when turning on again.
- * Applicable to brightness adjustment, color temperature adjustment and brightness/CT adjustment respective of Push DIM/CCT connection.



Reset switch

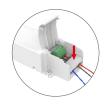
DIM/CCT

- On/off control: Short press.
- Stepless dimming and color adjustment: long press.
- With every other long press, color temperature go to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning on again.
- $\ensuremath{\,\dot{\ast}\,}$ Applicable to brightness and CT adjustment simultaneous of Push DIM/CCT connection.

Protective Housing Application Diagram







Use a screwdriver to pry up the protective housing at the edge of the wire fixing board. Then connect to the wires as the diagram shows and press down the wire fixing board.





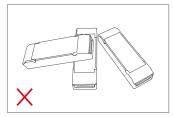


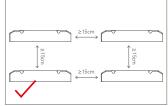
Press down the back side of the protective housing and move it from side to side to remove it.

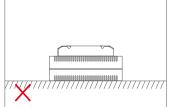


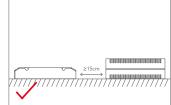


Installation Precautions









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 >15cm so as not to affect heat dissipation and shorten the lifespan of the products.

Note: The temperature within the installation area should be within the working temperature range of the products. Please do not install products inside LED fixtures to avoid temperature exceeding the working temperature that may affect the product lifetime.

Use the NFC Lighting APP

Scan the QR code below with your mobile phone and follow the prompts to complete the APP installation (According to performance requirements, you need to use a NFC-capable Android phone, or an iphone 8 and later that are compatible with iOS 13 or higher).



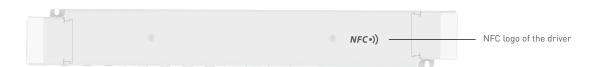
 $\textcolor{red}{\star} \; \; \text{Before you begin setting the parameters of the driver, please make sure } \; \; \text{the driver is powered off.}$

Read/Write the LED driver

 $Use your \ NFC-capable \ phone \ to \ read \ LED \ driver \ data, \ then \ edit \ the \ parameters \ and \ they \ can \ be \ directly \ written \ to \ the \ driver \ data.$

1. Read the LED driver

On the APP home page, click 【Read/Write LED driver】, then keep the programmer's sensing area close to the NFC logo of the driver to read the driver parameters.



2. Edit the parameters

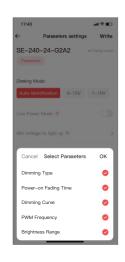
Click 【Parameter settings】 to edit the advanced parameters, like dimming type, power-on fading time, PWM frequency, etc.

3. Write to the driver

After completing the parameter settings, click [Write] in the upper right corner, and keep the programmer's sensing area close to the NFC logo of the driver, so the parameters can be written to the driver.



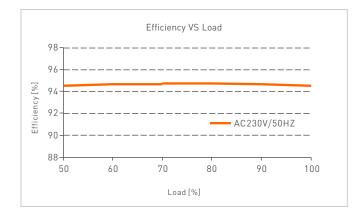


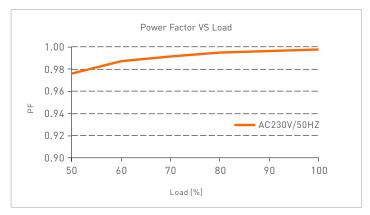


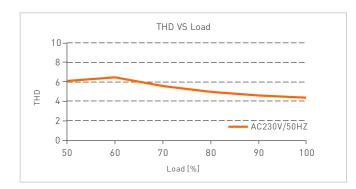


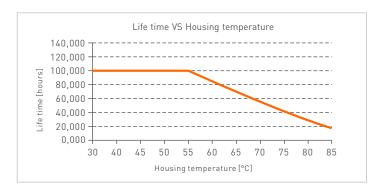


Relationship Diagrams

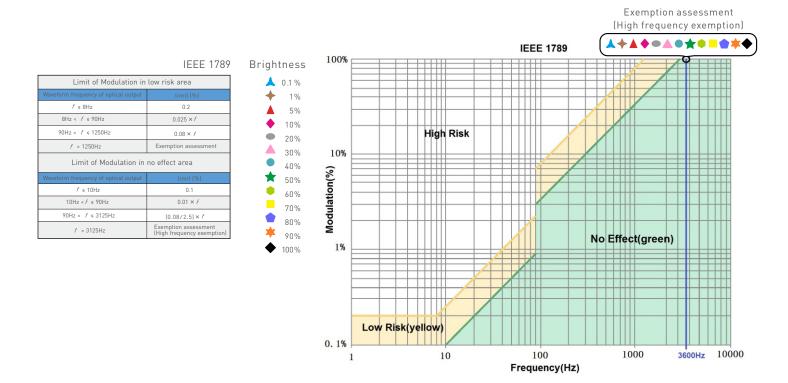








Flicker Test Form



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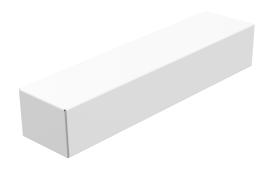




Packaging Specifications

Model	LM-240-24-G2A2
Carton Dimensions	400×350×120mm(L×W×H)
Quantity	10 PCS/Layer; 2 Layers/Carton; 20 PCS/Carton
Weight	0.555 kg/PC; 12 kg±5%/Carton

Packaging Image







Carton Packaging

Transportation and Storage

1. Transportation

Products can be shipped via vehicles, boats and planes.

During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.



LIELH

Attentions

- Products shall be installed by qualified professionals.
- LTECH products are and not lightning proof non-water proof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
- Good heat dissipation will prolong 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.
- $1. \, Repair \, or \, replacement \, provided \, is \, the \, only \, remedy \, for \, customers. \, LTECH \, is \, not \, liable \, for \, any \, incidental \, or \, consequential \, damage \, unless \, it \, is \, within \, the \, law.$
- $2.\,\mathsf{LTECH}\,\mathsf{has}\,\mathsf{the}\,\mathsf{right}\,\mathsf{to}\,\mathsf{amend}\,\mathsf{or}\,\mathsf{adjust}\,\mathsf{the}\,\mathsf{terms}\,\mathsf{of}\,\mathsf{this}\,\mathsf{warranty},\mathsf{and}\,\mathsf{release}\,\mathsf{in}\,\mathsf{written}\,\mathsf{form}\,\mathsf{shall}\,\mathsf{prevail}.$





Update Log

Version	Updated Time	Update Content	Updated by
Α0	2023.02.28	Original version	Liu Weili

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