



Intelligent 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

Monitor Marie								
Persistents	Model		LM-240)-24-G1A2				
	·	Output Type	Consta	nt voltage				
Protection Grade Protection	Features	Dimming Interface	0-10V(1-10V, 10V PWM, RX),	PUSH DIM			
Production Grade Class Courtable for class H. Jill Light Instrured		Output Feature	Isolatio	n				
OUTPUT OUTPUT American 200-pt Compation Max. 100-pt OUTPUT Max. 100-pt Max. 2009		Protection Grade						
Output Livening Mask. 2607 Output Clarvening Mask. 2607 Properting Margin 3-10%, 60m to 0.01% Properting Margin 3-10%, 60m to 0.01% Power Paper 250%, 60m to 0.01% PAM Fraguency 3500Hc (Default / INFC setting range 300-20000Hd) PAM Fraguency 2500-240/us FoF 9 290-240/us FoF 9 290-240/us FoF 9 290-240/us FoF 19 290-40 Foreigness 300-2000sc Foreigness 400-2000sc		Insulation Grade	Class I					
Output Disting Range AVAIGN ON THE CONTROL OF THE CONTR		Output Voltage	24Vdc					
OUTPUT Max. 10A Max. 10A COURS Power Max. 20AW Dimming Range 6 - 1000s, slows to 0.0 1% Righel maximum 2500m/February Voltage Accuracy 45% PWM Frequency 3500m/Electrolist / INFC setting range 300-20000Hz) In Accidation Range 200-2500uc ACV Voltage Range 200-2500uc E6F 99.4% In an Windings 220-2500uc Feguency 595.00ml In a part Current Max. 1.163/200uc In a part Current Max. 1.163/200uc In Inthibuted 100 Hother Setting In Inthibuted 200-2500uc In Inthibuted 100 Hother Setting In Inthibuted 100 Hother Setting Ard Surge L. N. 76V Lake Robusted 100 Hother Setting Verbring Temperature 200-9888 (Hit Robusted Hother) Vibration 200-9888 (Hit Robu			24Vdc±	0.5Vdc				
Output Protection Command Range Colono, down to 0.0 1% Colono			Max. 10)A				
Dimming Range	оитрит							
Ripple Invasionmen		<u>'</u>						
Valtage Accuracy 45% PWA Frequency 3000Hr Default f RPC setting range 300-2000Hr 200-2000Hr 200-2000Hr 200-2000Hr 200-2000Hr 200-2000Hr 200-2000Hr 200-2000Hr 200-200Hr 200-200Hr								
PMM Frequency 3.00012 Default / (FMFC setting range \$00-200001ta)								
DC Vistage Range 200 - 25MVec								
AC Visitage Range	INPUT			* *				
Imput Visitage								
Power Factor								
THD		<u> </u>						
Efficiency Typ.1 9.4% Cold start 55AlTest twidth=1200us tested under 50% ipeakl/230Vac Anti Surge								
Inrush Current								
Anti Surge			_					
Leakage Current								
NorKing Temperature 1a; -20 - 45°C tc; 86°C								
Morking Humidity		_						
ENVIRONMENT Storage Temperature Coefficient 4.0.038/PCID-95%RH 4.0.038/PCID-95%CI Vibration 1.0.500Hz, 20 Tam/Incycle, 72 min for X, Y and Z axes respectively Voverbad Protection Shut down the output when rated powers 102%, autor recovers Overhead Protection Shut down the output when rated powers 102%, autor recover automatically Overhead Protection Shut down the output when voltages 28V, and recover automatically Overhead Protection Shut down the output when voltages 28V, and recover automatically Withstand Midtage II/P-0/P:35704c Insulation Resistance I/P-0/P:100M0/500VDC/25°C/70%RH CCC Chan GB19510.1, 6B19510.14 TUV Germany EN61347-1, EN61347-2-13 EN62493 Safety Standards KC Korea KC61347-1, EN61347-2-13 EN62493 Safety Standards KC Korea KC61347-1, EN61347-2-13 EN62493 EEVEL European Union EN51347-1, EN61347-2-13 EN62349 ENCC China GB171773, GB174251								
Temperature Coefficient 4.0.03%/*Ci(0-50*C) Vibration 10-500Hz, 26 12min/1cycle, 72 min for X, Y and Z axes respectively								
Vibration 10-500Hz, 26 12min/1cycle, 72 min for X, Y and Z axes respectively	ENVIRONMENT							
Overload Protection								
PROTECTION Overhead Protection Intelligently adjust or turn off the output current if the PCB temperature ≥10°C, and recover automatically								
PROTECTION Short Circuit Protection Shut down the output when voltage≽28V, and recover automatically								
Overvottage Protection Short direct Protection Short of Circuit Protection Enter hiccup mode if short circuit occurs, and recover automatically	PROTECTION							
Withstand Voltage								
Insulation Resistance		Short Circuit Protection		Enter hiccup mode if short circuit occurs, and recover automatically				
SAFETY & EMC Emission		Withstand Voltage	I/P-0/	I/P-0/P: 3750Vac				
TUV Germany EN61347-1, EN61347-2-13, EN62493		Insulation Resistance	I/P-0/	P: 100MΩ/500VDC/25	°C/70%RH			
Safety Standards		Safety Standards	CCC	China	GB19510.1, GB19510.14			
SAFETY			TUV	Germany	EN61347-1, EN61347-2-13, EN62493			
Safety Standards			СВ	CB Member States	IEC61347-1, IEC61347-2-13			
EAC Russia IEC61347-1, IEC61347-2-13			CE	European Union	EN61347-1, EN61347-2-13, EN62384			
RCM			KC	Korea	KC61347-1, KC61347-2-13			
RCM Australa AS 6134/2-13 AS 6134/2-13 AS 6134/2-13 EM62384 EMC Europe EN61347-1, RN61347-2-13, EN62384 UKCA Britain BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 CCC China GB/T17743, GB17625.1 CE European Union EN55015, EN61000-3-2, EN61000-3-3, EN61547 KC Korea KSC 9815, KSC 9547 EAC Russia IEC62493, IEC61547, EH55015 RCM Australia EN55015, EN61000-3-2, EN61000-3-3, EN61547 UKCA Britain BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 EMC Immunity EN61000-4-2,3,4,5,6,8,11, EN61547 Networked standby No-load power consumption <0.5W [When the lamp is not connected] Flicker/Stroboscopic Effect Flicker/Stroboscopic Effect DF Phase factor DF >0.9 OTHERS			EAC	Russia	IEC61347-1, IEC61347-2-13			
ENC			RCM	Australia	AS 61347-1, AS 61347-2-13			
BS EN 61347-1, BS EN 61347-2-13, BS EN 62493			ENEC	Europe	EN61347-1, EN61347-2-13, EN62384			
EMC Emission	EMC		UKCA	Britain	BS EN 61347-1, BS EN 61347-2-13, BS EN 62493			
EMC Emission		EMC Emission			GB/T17743, GB17625.1			
EMC Emission KC Korea KSC 9815, KSC 9547								
EMC Emission				· · · · · · · · · · · · · · · · · · ·				
RCM								
UKCA Britain BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547								
EMC Immunity EN61000-4-2,3,4,5,6,8,11, EN61547 Power Consumption Networked standby <0.5W (After shutdown by command) No-load power consumption <0.5W (When the lamp is not connected) IEEE 1789 Meet IEEE 1789 standard/High frequency exemption level OIE SVM Pst LM OTHERS OTHERS EN61000-4-2,3,4,5,6,8,11, EN61547 Networked standby <0.5W (After shutdown by command) No-load power consumption <0.5W (When the lamp is not connected) IEEE 1789 Meet IEEE 1789 standard/High frequency exemption level DIE SVM Pst LM OTHERS								
Power Consumption Power Consumption Networked standby <0.5W (After shutdown by command)		EMC Immunity						
Power Consumption								
ErP Flicker/Stroboscopic Effect IEEE 1789 Meet IEEE 1789 standard/High frequency exemption level DF CIE SVM Pst LM≤1.0, SVM≤0.4 DF Phase factor DF>0.9 Weight(N.W.) 555g±10g	ErP	Power Consumption			·			
Flicker/Stroboscopic Effect CIE SVM		Flicker/Stroboscopic Effect						
OTHERS Veight(N.W.) Pst LM ≤ 1.0, SVM ≤ 0.4 DF Phase factor DF ≥ 0.9								
OTHERS Weight[N.W.] 555g±10g					·			
OTHERS		DF	Phase factor		DF≥0.9			
Dimensions 380×49.5×30mm[L×W×H]	OTHERS	Weight(N.W.)	555g±10g					
	OTHERS	Dimensions	380×49	.5×30mm(L×W×H)				

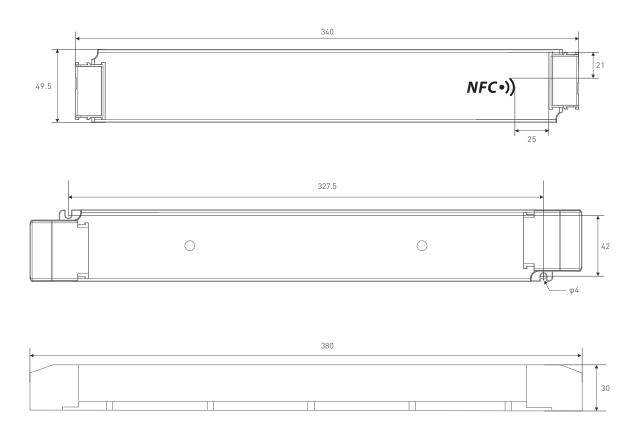
Dimensions The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering).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



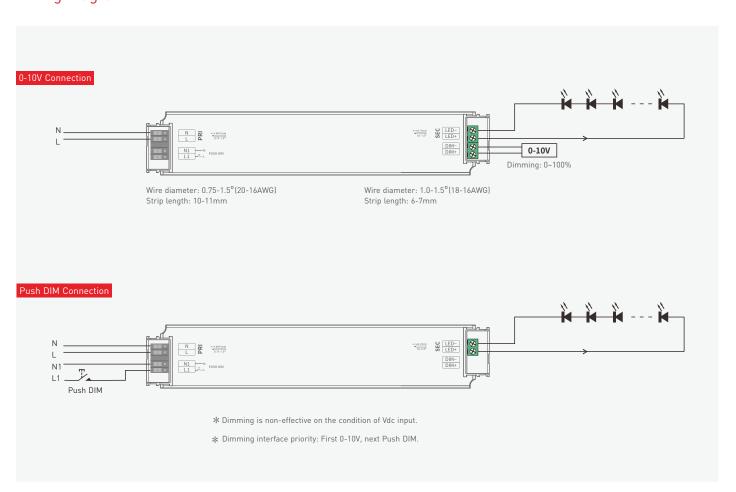


Product Size

Unit: mm



Wiring Diagram





Push DIM



Reset switch

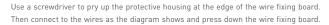
- On/off control: Short press.
- Stepless dimming: Long press.
- \bullet With every other long press, the brightness goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning on again.

Protective Housing Application Diagram









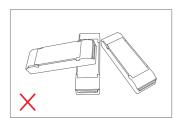


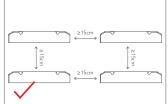




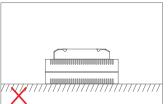
Press down the back side of the protective housing and move it from side to side to remove it

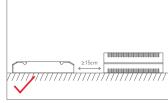
Installation Precautions











Please not place the products on LED drivers. The distance between the product and the driver should be \geqslant 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).



* Before you begin setting the parameters of the driver, please make sure 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.

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

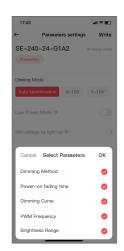
Click [Parameter settings] to edit the advanced parameters, like dimming method, power-on fading time, PWM frequency, etc.

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.



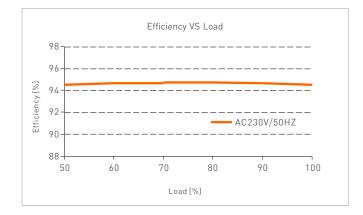


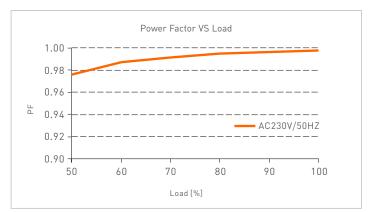


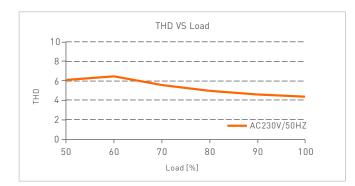


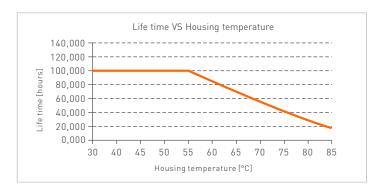


Relationship Diagrams

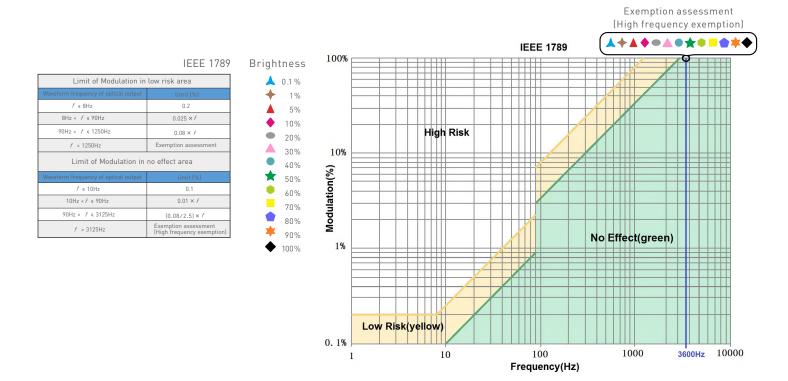








Flicker Test Form



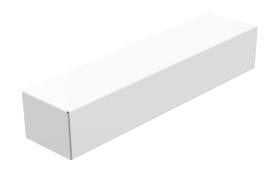
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Packaging Specifications

Model	LM-240-24-G1A2
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.



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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