

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
- Support RDM protocol.
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- The whole dimming process is flicker-free with high frequency
- 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				
DMX512/RDM, PUSH DIM				
Protection Grade IP20 Insulation Grade IP20 Insulation Grade IP20 Insulation Grade IP20 Insulation Grade Class II ISuitable for class I/ II / III light fixtures Output Voltage 24Vdc=U Output Voltage Output Voltage Avdc=U Output Voltage Output Current Max. IOA Output Power Max. 26W0 Output Power Max. 20W0 Output Power Output Pow				
Protection Grade IP20				
Output Voltage 24Vdc Output Voltage Range 24Vdce.0.5Vdc Output Power Max. 10A Output Power Max. 240W Dimming Range 0-100%, down to 0.01% Rippelfmaximum 200mWp-p Voltage Accuracy ±5% PWM Frequency 422000Hz (NFC setting range 300-20000Hz) OC Voltage Range 200-250Vdc AC Voltage Range 200-250Vdc AC Voltage Range 220-240Vac EoFv EoFv=99.6% Input Voltage 220-240Vac Frequency 0/50/60Hz Input Current Max. 1.18A/230Vac Power Factor PF>0.99/230Vac, at full load THO THOS%@/30Vac, at full load Efficiency Ifyp.l 94% Inrush Current Cold start 55A[Test twidth=1200us tested under 50% peakl/230Vac Anti Surge L-N-: 2KV Leakage Current Max. 0.5mA Working Humidity 20 - 95%RH, non-condensing Storage Enerperature/Humidity 40 - 80°C/10-195%RH Temperature Coefficient 40.03%/*CIO-50°C Vibration 0-95%RH, non-condensing Storage Enerperature/Humidity 40 - 80°C/10-195%RH Temperature Coefficient 40.03%/*CIO-50°C Vibration 0-050Hz, 26 12min/lcycle, 72 min for X, Y and Z axes respectively Short Circuit Protection Shut down the output when rated powers 102%, auto recovers Overvoltage Protection Shut down the output when rottage>28v, and recover automatically Overvoltage Protection Shut down the output when rottage>28v, and recover automatically Overvoltage Protection Shut down the output when voltage>28v, and recover automatically Overvoltage Protection Shut down the output when voltage>28v, and recover automatically Overvoltage Protection Shut down the output when voltage>28v, and recover automatically Overvoltage Protection Shut down the output when voltage>28v, and recover automatically Overvoltage Protection Shut down the output when voltage>28v, and recover automatically Overvoltage Protection Shut down the output when voltage>28v, and recover automatically Overvoltage Protection Shut down the output when voltage>28v, and recover automatically Overvoltage Protection Shut down the ou				
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Output Power				
Dimming Range				
Ripple(maximum)				
Voltage Accuracy ±5% PVM Frequency 42200Hz NFC setting range 300-20000Hz				
PWM Frequency				
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AC Voltage Range				
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EAC Russia IEC61347-1, IEC61347-2-13				
SAFETY RCM Australia AS 61347-1, AS 61347-2-13				
& ENEC FUEDE ENA12/7-1 ENA12/7-2-13 ENA238/				
UKCA Britain BS EN 61347-1, BS EN 61347-2-13, BS EN 62493				
BIS India IS 15885 (PART 2/SEC 13)				
CCC China GB/T17743, GB17625.1				
EMC Emission				
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				
Power Consumption Networked standby < 0.5W (After shutdown by command)				
No-load power consumption <0.5W (When the lamp is not connected)				
Flicker/Stroboscopic Effect IEEE 1789 Meet IEEE 1789 standard/High frequency exemption level				
CIE SVM Pst LM≤1.0, SVM≤0.4				
DF Phase factor DF≥0.9				
OTHERS Weight[N.W.] 555g±10g				
OTHERS Dimensions 380×49.5×30mm(L×W×H)				

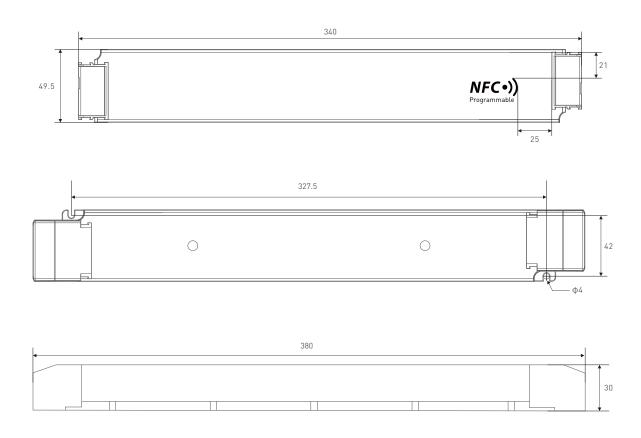
The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), so that we can prepare them with special procedures.



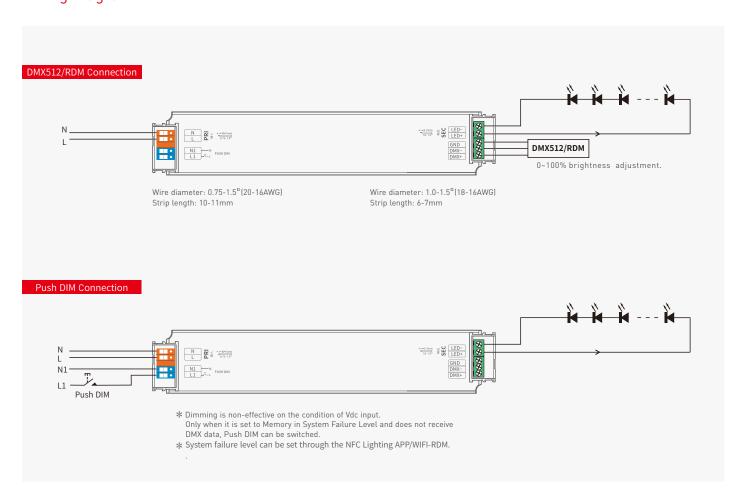
LTECH

Product Size

Unit: mm



Wiring Diagram





LTECH

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.

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.

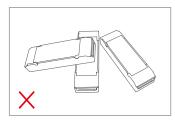


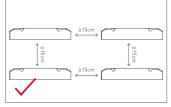


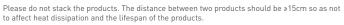


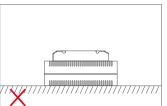
Press down the back side of the protective housing and move it from side to side to remove it.

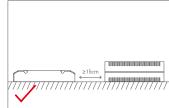
Installation Precautions











Please 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).



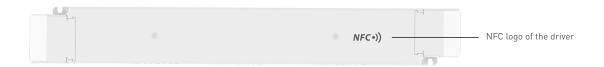
 $oldsymbol{*}$ Before you begin setting the parameters of the driver, please make sure the driver is powered off.

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 DMX address, PWM frequency, dimming curve, etc.

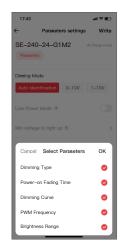
3. Write to the driver

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.









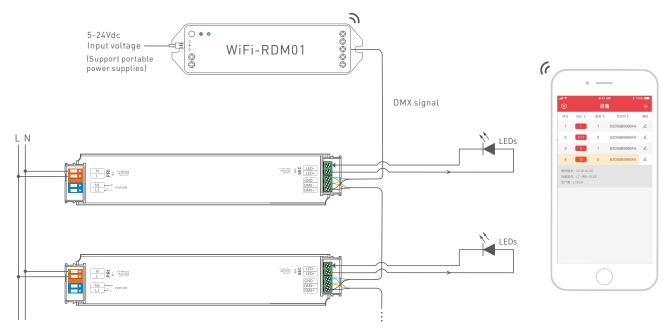


LTECH

Use with RDM Editor

 $The \, DMX \, driver \, can \, work \, with \, a \, DMX \, address \, programmer \, that \, follows \, the \, standard \, RDM \, protocol.$

It is recommended to use LTECH RDM Programmer (Model: WiFi-RDM01), which can achieve more functions such as remote browsing and parameter setting. Wiring diagram as below:



* The default of DMX address of the LED driver is 1

Mobile App Interface for the RDM Programmer

Download the App with your mobile phone and connect the RDM Programmer successfully, then you are allowed to set parameters through the APP. Please refer to the WiFi-RDM01 manual fo more details.





Testing



a: Click "Add", edit the address in corresponding box;

b: Click"ID", get more product details;

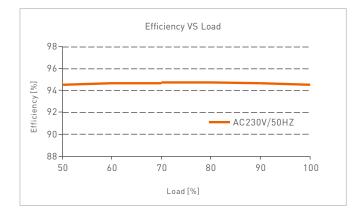
c: Click "⑤", enter the settings interface

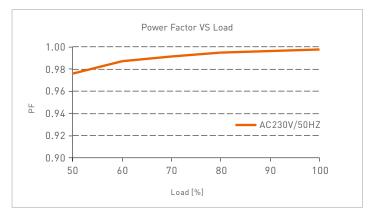
d: Click"No.", issue the recognizing command.

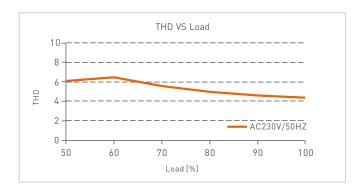
DMX address setting

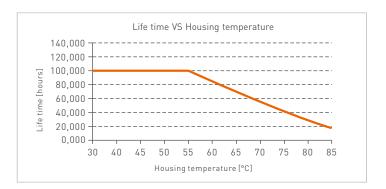


Relationship Diagrams

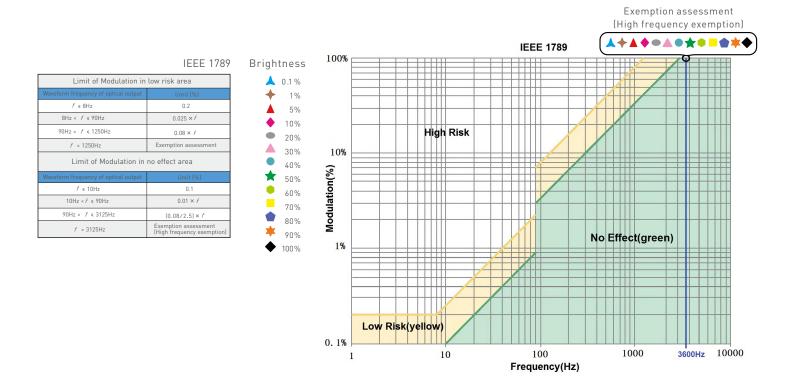








Flicker Test Form



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Packaging Specifications

Model	LM-240-24-G1M2
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

- Product installation and commissioning should be done by a qualified professional.
- 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.
- $2.\,\mathsf{LTECH}\,\mathsf{has}\,\mathsf{the}\,\mathsf{right}\,\mathsf{to}\,\mathsf{amend}\,\mathsf{or}\,\mathsf{adjust}\,\mathsf{the}\,\mathsf{terms}\,\mathsf{of}\,\mathsf{this}\,\mathsf{warranty}, \mathsf{The}\,\mathsf{warranty}\,\mathsf{that}\,\mathsf{issues}\,\mathsf{in}\,\mathsf{writting}\,\mathsf{shall}\,\mathsf{prevail}.$





Update Log

Ve	ersion	Updated Time	Update Content	Updated by
	Α0	2024.01.08	Original version	Li Siyu

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