

LM-100-24-U2M2

DMX/RDM Push DIM/CCT

Intelligent Tunable White LED Driver (Constant Voltage)

- Small size and light weight. The housing is made from V0 flame retardant PC materials that SAMSUNG/COVESTR0 uses.
- 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 program design and it keeps the same brightness in color temperature adjustment.
- Color temperature range: 2700-6500K.
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- High frequency exemption level.
- Dimming from 0~100%, down to 0.1%.
- 2-CH SELV output channel with common anode.
- Support RDM remote device management protocol.The secure and reliable design for signal isolation.
- Insective thermal account of signal isolation
- Innovative thermal management technology intelligently protects the power life.
 Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Suitable for indoor light applications of 1/II/III type.
- Suitable for indoor light applications of I
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor).







Technical Specs

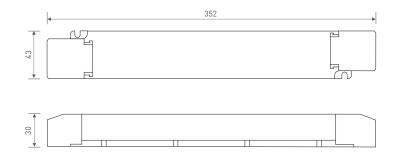
Model		LM-100-24-U2M2					
	Output Voltage	24Vdc					
OUTPUT	Output Voltage Range	24Vdc±0.5Vdc					
	Output Current	Max. 4.17A					
	Output Power	Max. 100W					
	Output Power Range	0-100W					
	Strobe Level	High frequency exemption level					
	PWM Frequency	3600Hz					
	Dimming Range	0~100%, down to 0.1%					
	Overload Power Limitation	≥102%					
	Ripple & Noise	Switch ripple<150mV, noise<500mV					
INPUT	Dimming Interface	DMX/RDM, Push DIM/CCT					
	Input Voltage	120-277Vac					
	Frequency	50/60Hz					
	Input Current	Max. 1A/120Vac, 0.55A/230Vac, 0.45A/277Vac					
	Power Factor	PF>0.99/120Vac, PF>0.95/230Vac, 0.45A/277Vac (at full load)					
	THD	120Vac@THD < 5%, 230Vac@THD < 8%, 277Vac@THD < 11% (at full load)					
	Efficiency (typ.)	93%					
	Standby Power Loss	<pre></pre>					
	Inrush Current	Cold start 45A/230Vac (Test twidth = 840us under 50% Ipeak)					
	Anti Surge	L-N: 2KV					
	Leakage Current	Max. 0.5mA					
	Working Temperature	ta: -20-50°C tc: 85°C					
	Working Humidity	20-95%RH, non-condensing					
ENVIRONMENT	Storage Temperature,Humidity	-40~80°C, 10-95%RH					
ENVIRONMENT	Temperature Coefficient	±0.03%/°C(-20-50°C)					
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively					
	Overheat Protection	Intelligently adjust or turn off the output current if the PCB temperature >110°C, and recover automatically					
	Overvoltage Protection	Shut down the output when non-load voltage>28V, and recover automatically					
PROTECTION	Overload Protection	Shut down the output when current load>102%, and recover automatically					
	Short Circuit Protection						
	Withstand Voltage	Enter hiccup mode if short circuit occurs, and recover automatically I/P-0/P: 3750Vac					
	Isolation Resistance		//0/P: 3/50Vac I/P-0/P: 100MΩ/500VDC/25°C/70%RH				
	Safety Standards	UL America UL8750					
SAFETY		CUL	Canada	CSA C22.2 NO. 250. 13			
& EMC		CE	European Union	EN61347-1, EN61347-2-13, EN62384			
		UL					
	EMC Emission		America	FCC part 15			
	EMC Immunity			EN55015, EN61000-3-2, EN61000-3-3, EN61547			
	Strobe Test Standard		EN61000-4-2,3,4,5,6,8,11, EN61547 IEEE 1789				
	Gross weight(G.W)		430g				
OTHERS	Dimensions	-	4309 352×43×30mm(L×W×H)				
	Package size		355×44×33mm(L×W×H)				
	Carton Size		370×340×93mm(L×W×H) 20pcs/ctn 9.4kg±5%/ctn				
The driver is suitable fo		S70×340×73HTH[L×W×H] Z0PUS/UH 7.4Kg±3%/UH D fivture (a.n. LED strin). The invision LED fivtures the driver will be dotate to everlage the overlage the overlage the structure of					

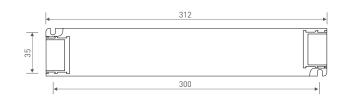
* The driver is suitable for connecting resistor current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED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



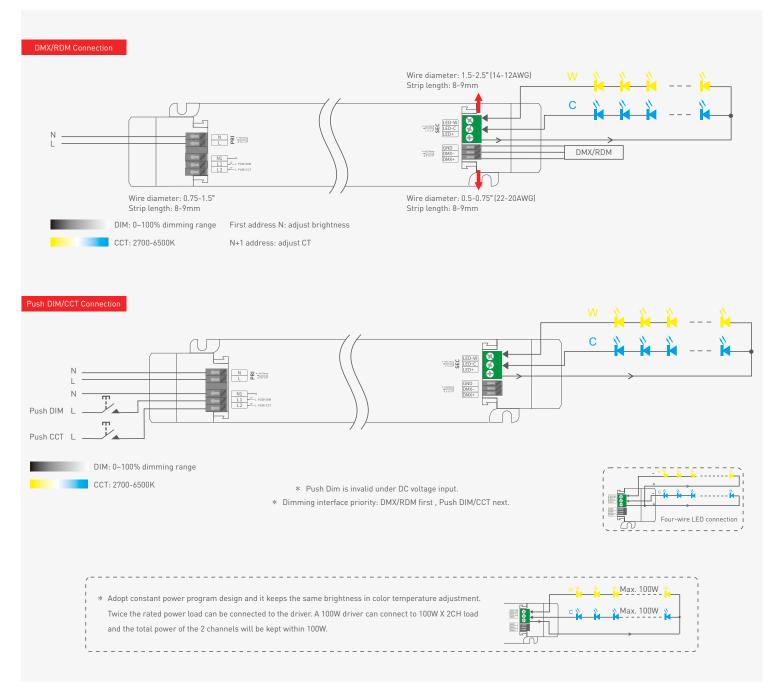
Product Size

Unit: mm





Wiring Diagram





• Color temperature adjustment: Long press.

adjusted when lights are turned on.

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Push DIM/CCT



DIM

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the brightness level goes to the opposite direction.
- Dimming memory: Go to the brightness level adjusted previously when lights are turned on.

Reset switch

Protective Housing Application Diagram

Tension plate





Please do not stack the products. The distance between two products should be ≥15cm so as not

Push the tension plate down to fix the electric wires.

Installation Precautions



Push the side plate outwards and remove the tension plate by prying it up with a tool at the same time

≥ 1 bcr

Remove the protective housing

ССТ

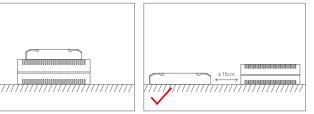


• With every other long press, color temperature go to the opposite direction.

Color temperature memory: Color temperature will be the same as previously

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



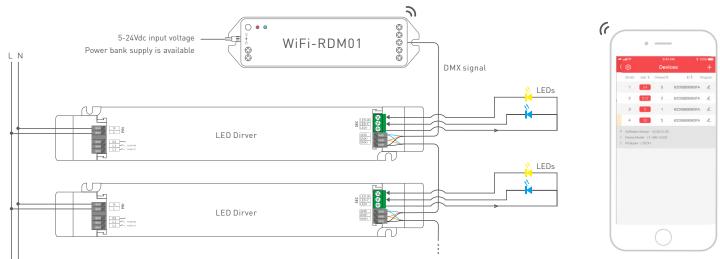


Please not place the products on LED drivers. The distance between the product and the driver should be ≥15cm so as not to affect heat dissipation and shorten the lifespan of the products.

to affect heat dissipation and the lifespan of the products.

DMX Address Setting

The DMX driver can work with the address editor that complies with standard RDM protocol. It is recommended to use LTECH's RDM editor (model WiFi-RDM01), which can achieve more functions such as remote browsing and parameter setting. Wiring diagram as below:



* the defaulted DMX address of the driver is 1.



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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. a. At the homepage, click "Add" of the device you are going to operate to edit the address, as shown below in the interface.

- b. Click "ID" to get more details for devices.
- c. Click "No" to issue an recognizing command.
- d. Click " 🛞 " in the upper left corner to access the settings which allows you to test, edit DMX addresses.

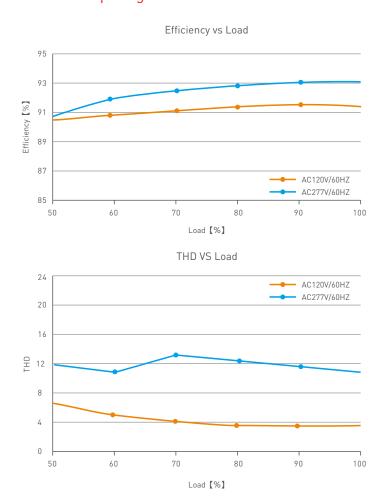


Home page

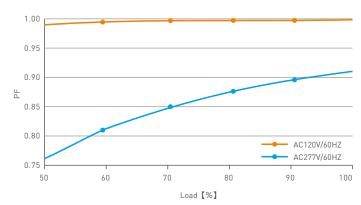




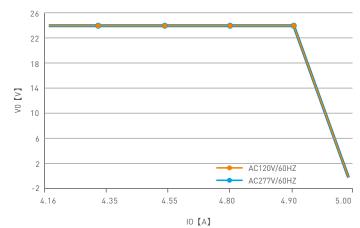
Relationship Diagrams



Power Factor Characteristic





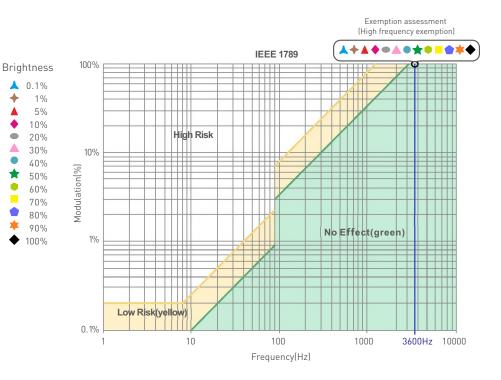




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Flicker Test Table

Limit Value of Modulation in Low Risk Areas							
Waveform frequency of Optical output (f)							
f ≼ 8Hz	0.2						
8Hz < f ≼ 90Hz	0.025 × f						
90Hz < f ≤ 1250Hz	0.08 × f						
f > 1250Hz	Exemption assessment						
Limit Value of Modulation in No Effect Areas							
Waveform frequency of Optical output (f)	Limit value (%)						
f ≼ 10Hz	0.1						
10Hz < f ≼ 90Hz	0.01 × f						
90Hz < f ≼ 3125Hz	(0.08/2.5) × f						
f > 3125Hz	Exemption assessment (High frequency exemption)						



Marks in the right chart are tested results of different current levels. The output frequency is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

Attentions

- Products shall be installed by qualified professionals.
- LTECH products are 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 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.

IEEE 1789

- · 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. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.



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Update Log

Version	Updated Time	Update Content	Updated by
AO	2021.05.31	Original version	Liu Weili
A1	2021.12.10	Update product silk screen	Liu Weili