

Intelligent Tunable White LED Driver (Constant Voltage)

- Small size and light weight. The housing is made from V0 flame retardant PC materials that SAMSUNG/COVESTRO 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.
- 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.
- DALI bus standard IEC62386-101, 102, 209.
- Comply with the EU's ErP Directive, stand-by power consumption<0.5W.
- The secure and reliable design for 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 I/II/III type.
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor).

DALI Bring and a start DIM/CT Flicker-free **IEEE 1789** Dimmable: 0.1%~100% **CAL**[®]US Type TL 84/83.5°C FC CE RoHS SELV Class 2 Use only within an Jul DALI (4)V PUSH

Technical Specs

Model		LM-100-24-U2D2					
	Output Voltage	24Vdc					
OUTPUT	Output Voltage Range	24Vdc±0.5Vdc					
	Output Current	Max. 4.17A					
	Output Power	Max. 100W					
	Output Power Range	0-100\					
	Strobe Level	High frequency exemption level					
	PWM Frequency	3600Hz					
	Dimming Range	0~100%, down to 0.1%					
	Overload Power Limitation	≥102%					
	Ripple & Noise	Switch	Switch ripple<150mV, noise<500mV				
	Dimming Interface		2 DT6/DT8, Push DIM				
	Input Voltage	120-277Vac					
INPUT	Frequency	50/60Hz					
	Input Current	Max. 1A/120Vac, 0.55A/230Vac, 0.45A/277Vac					
	Power Factor	PF>0.99/120Vac, PF>0.95/230Vac, PF>0.9/277Vac (at full load)					
	THD	120Vac@THD < 5%, 230Vac@THD < 8%, 277Vac@THD < 11% [at full load]					
	Efficiency (typ.)	93%					
	Standby Power Loss	<0.5W					
	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	ta: -20~50°C tc: 85°C				
	Working Humidity	20-95%RH, non-condensing					
ENVIRONMENT	Storage Temperature,Humidity	-40~80°C, 10-95%RH					
	Temperature Coefficient	±0.03%	±0.03%/°C(-20~50°C)				
	Vibration	10~500	10-500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively				
PROTECTION	Overheat Protection	Intelli	Intelligently adjust or turn off the output current if the PCB temperature >110°C, and recover automatically				
	Overvoltage Protection	Shut d	Shut down the output when non-load voltage>28V, and recover automatically				
	Overload Protection	Shut down the output when current load≽102%, and recover automatically					
	Short Circuit Protection	Enter	Enter hiccup mode if short circuit occurs, and recover automatically				
	Withstand Voltage	I/P-0/	I/P-0/P: 3750Vac				
	Isolation Resistance	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			
	EMC Emission	UL	America	FCC part 15			
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547			
	EMC Immunity		EN61000-4-2,3,4,5,6,8,11, EN61547				
	Strobe Test Standard	IEEE 1	EEE 1789				
	Gross weight(G.W)	430g	430g				
OTHERS	Dimensions	352×43	352×43×30mm(L×W×H)				
	Package size	355×44	355×44×33mm(L×W×H)				
	Carton Size	370×34	370×340×93mm(L×W×H) 20pcs/ctn 9.4kg±5%/ctn				

* 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.

LM-100-24-U2D2

DALI Push DIM/CCT



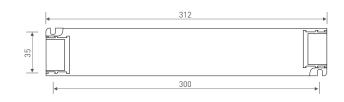
LM-100-24-U2D2



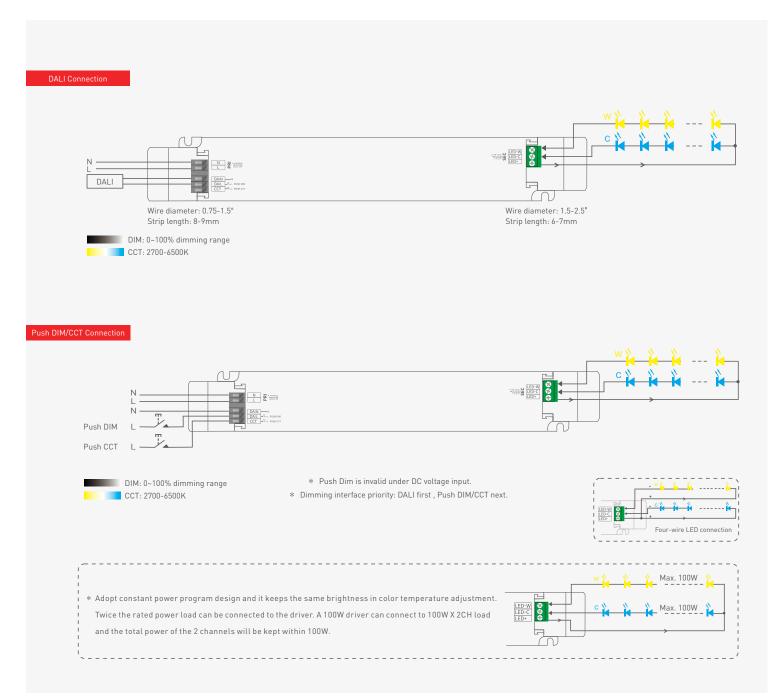
Product Size

Unit: mm





Wiring Diagram







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.
- are turned on.
- Reset switch

• Dimming memory: Go to the brightness level adjusted previously when lights

- ССТ
- 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 lights are turned on.

Protective Housing Application Diagram

Tension plate







Push the tension plate down to fix the electric wires.

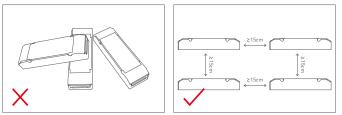
Push the side plate outwards and remove the tension plate by prying it up with a tool at the same time.

Remove the protective housing



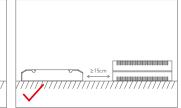
Pull the housing left and right from the bottom to remove it.

Installation Precautions



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

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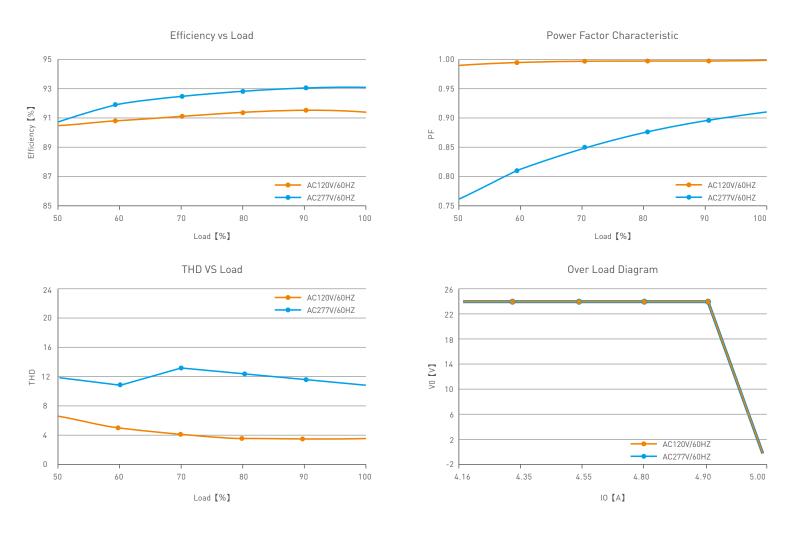


Please not place the products on LED drivers. The distance between the product and the driver should be ≥15cm so as not to affect heat dissipation and shorten the lifespan of the products.





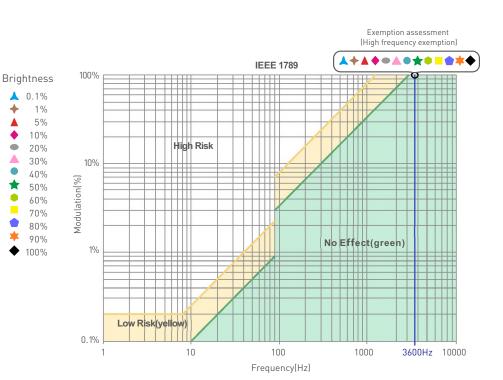
Relationship Diagrams



Flicker Test Table

	IEEE 1789						
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.
- 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.

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