

LCP150DM-4H24V

Product Features

- 4 channels constant voltage output, maximum output current: 6.25A
- Meet DALI protocol IEC 62386, DALI2.0
- Short circuit, overcurrent, overload protection
- Enclosure with V-0 Flame-Retardant Rating
- The dimming range is 0.5% to 100%, featuring smooth, step-free dimming and flicker-free operation
- The elongated housing design facilitates installation in narrow spaces.
- 50,000-hour lifespan with a 5-year warranty
- Dimming Type: DALI & DMX
- IP20 protection rating, suitable for indoor Class I, II, and III luminaires

Application

For LED constant voltage strip light only



LED Strip Light



LED Tube

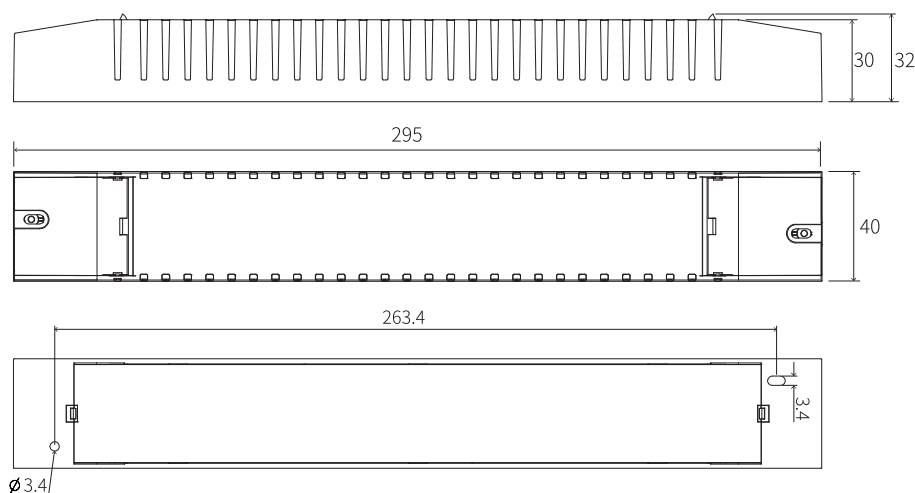


Technical Parameters

Model	LCP150DM-4H24V	
Input	Rated Voltage	220VAC-240VAC
	Frequency Range(Hz)	50/60Hz
	Current	0.75Amax@230VAC
	Power Factor	≥0.98@230VAC, Full load
	Efficiency	≥93%@230V, Full load 94%/TYP@230V, Full load
	THD(full load)	<10%@230VAC, Full load
	Standby power	<0.5W
	No load power	<0.6W@277VAC
	Inrush Current	Cold start, 57A@230VAC 250us
Output	Voltage	24VDC
	Voltage Tolerance	±0.5V
	Current	6.25A max (1.56A per Channel, 4 Channel, In all 6.25A)
	Power	150W
	Channel	4
	PWM Dimming frequency	3.3KHz
	Line regulation	±1% @Full load
	Load regulation	±2% @Full load
	Ripple Voltage	<1%
	Start-up Time	0.75s (When the light begins to shine)
Function	Dimming Type	DALI/PUSH, DMX/RDM
	Dimming Range	0.5%-100%
	Dimming curve	DALI: Logarithm DMX: Linearity
	Flicker	Flicker free
Protection	Short circuit	Hiccup protection, No output, Auto-Recover when fault removed
	Overcurrent	Hiccup protection, No output, Auto-Recover when fault removed
	Overload	Hiccup protection, No output, Auto-Recover when fault removed
Safety & EMC	Surge	L-N:2KV
	Withstand Voltage	I/P-O/P: 3000Vac/1min/<5mA, O/P-DALI: 500Vac/1min/<1mA, O/P-DMX:500Vac/1min/<1mA
	Safety standard	CCC (China) GB19510.1, GB19510.14 TUV (Germany) EN61347-1, EN61347-2-13, EN62493
		CB (CB member states) IEC61347-1, IEC61347-2-13 CE (European Union) EN61347-1, EN61347-2-13, EN62384
		RCM (Australia) AS 61347-1, AS 61347-2-13 EMEC (Europe) EN61347-1, EN61347-2-13, EN62384
	EMC	CCC (China) GB/T17743, GB17625.1
		CE (European Union) EN55015, EN61000-3-2, EN61000-3-3, EN61547
		RCM (Australia) EN55015, EN61000-3-2, EN61000-3-3, EN61547
	EMI	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547

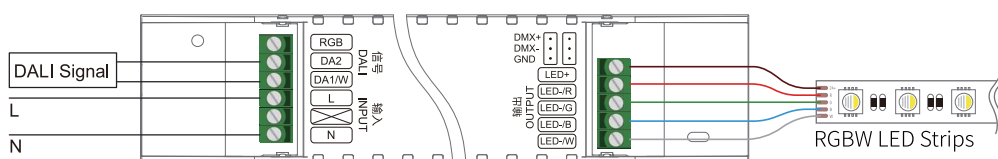
Environment	Working Temp.	-20°C~50°C
	Storage Temp.	-40°C~85°C
	Storage Humidity	20-90%RH (No condensation)
Others	RoHS	Comply with 2011/65/EU
	tc	80°C
	material	PC
	IP Rating	IP20
	Lifetime	50,000h@tc:80°C
	Warranty Condition	5years
	Switch Cycle	25,000times
	Body size	295*40*32mm (L*W*H)
	Packing(weight)	Net weight: 305g±5%/PCS; 50PCS/Carton; 15.7kg±5%/Carton; Carton Size: 434*302*174mm(L*W*H)
	Noise	In a quiet environment, No noise outside 30-50cm
Remark	All parameters were measured at an input voltage of 230VAC/50Hz and an ambient temperature of 25 °C without any special instructions.	

Dimension(mm)

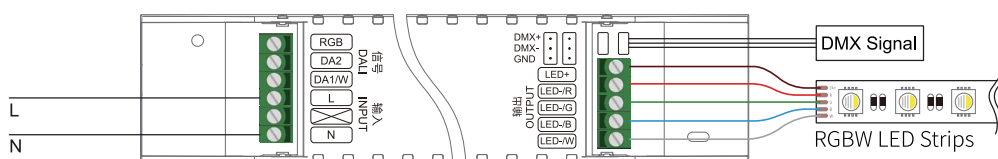


Wiring

DALI

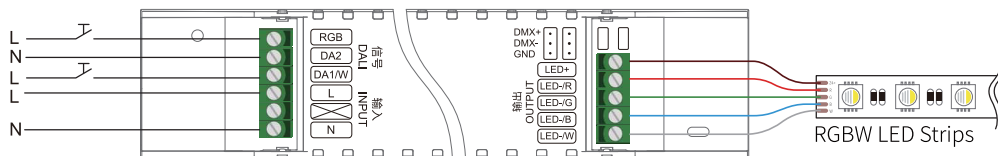


DMX/RDM



Push DIM Application

Push DIM



Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

Push DIM Function

- Memory Function: The system retains the previous state after power is restored.
- PUSH Dimming Mode: Long-press the Push W button for 5 seconds or more to enter PUSH dimming mode.

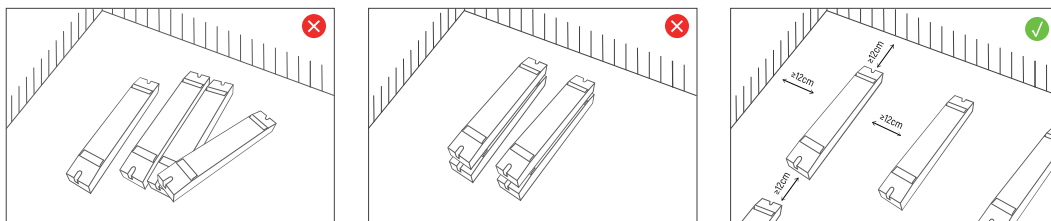
Push RGB Button

- Long Press: Adjust RGB (color) values.
- Short Press: Set RGB (color) and brightness to maximum.
- Double-Click: Toggle the Push W button's control channel between RGB (color) and W (white light).

Push W Button

- Note: At any given time, the Push W button can only adjust either W (white light) brightness or RGB (color) brightness, as determined by the double-click function of the Push RGB button.
- Short Press: Turn the corresponding channel ON or OFF.
- Long Press: Adjust the brightness of the corresponding channel.
- The brightness level is maintained upon release.
- Each subsequent long press reverses the adjustment direction (e.g., from increasing to decreasing brightness).
- Double-Click: Set the corresponding channel to maximum brightness.

Installation Precautions



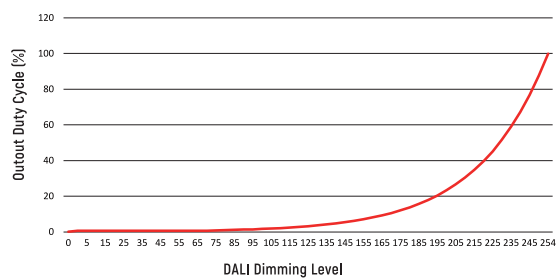
Please do not stack the products. The distance between two products should be $\geq 12\text{cm}$ so as not to affect heat dissipation and the lifespan of the products.

Max. quantity of drivers per miniature circuit breaker

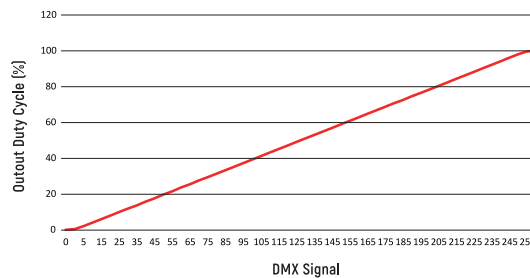
Specification item	Value	Condition
Inrush current I_{peak}	57A	Input Voltage 230VAC
Inrush current T_{width}	250us	Input Voltage 230VAC, measured to 50% I_{peak}

MCB	Input Voltage 230V Drivers	MCB	Input Voltage 230V Drivers
B10	5pcs	C10	9pcs
B13	7pcs	C13	12pcs
B16	9pcs	C16	15pcs
B20	11pcs	C20	18pcs
		D16	21pcs

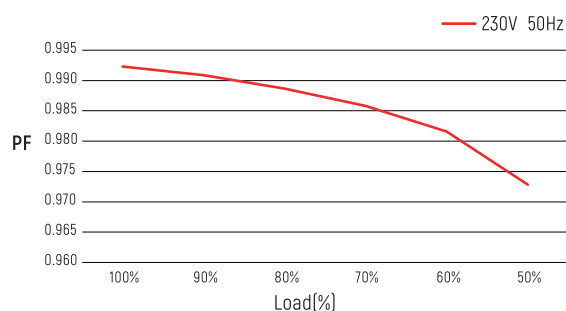
DALI Dimming Curve



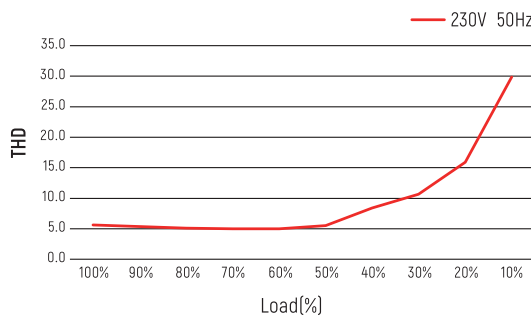
DMX Dimming Curve



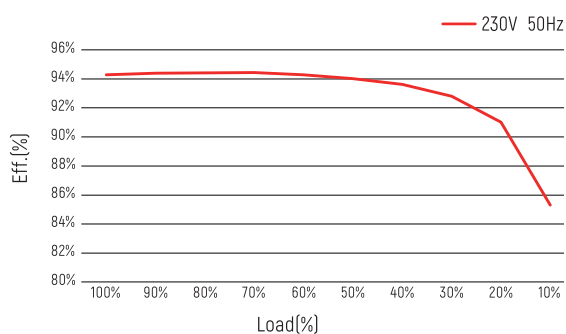
PF vs Load Curve



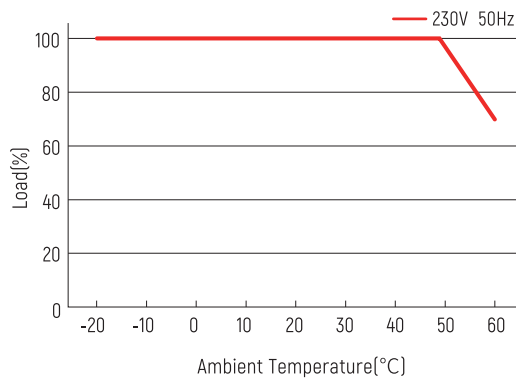
THD vs Load Curve



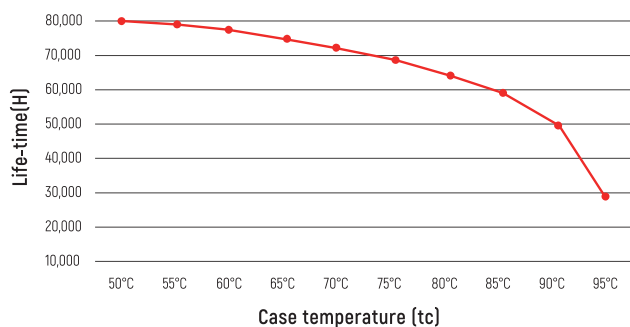
Efficiency vs Load Curve



Derating Curve



Life-time vs. case temperature



The life-time of the led driver is shown in the figure above (calculated based on the 90% survival rate).
The relation of t_c to t_a temperature depends also on the luminaire design.

Cautions

This product must be installed and adjusted by a qualified professional.		
1	Confirmation of installation conditions	· Waterproof and Protection: Install in a suitable location according to the waterproof and protection requirements of the power supply. Products without waterproof function should be protected from direct sunlight and rain. When installing outdoors, please use a waterproof box for protection. · Heat dissipation requirements: The drive power supply should avoid exposure to high temperature environments. Please ensure that the working environment temperature is within the recommended range. To ensure proper heat dissipation of the drive power supply, a well ventilated area should be selected for installation. Good heat dissipation conditions can help extend product lifespan.
2	Power check	· Before use, check the product parameters and confirm that the output voltage and current of the LED power supply meet the requirements
3	Safe wiring	· Use cables that meet the specifications to ensure that the cross-section of the wire matches the requirements of the driving power supply. Solid cables typically measuring 0.75-2.5 mm², (Please refer to the silk screen printing or wiring diagram in the instruction manual for specific wire diameter requirements). · If the power supply (metal casing) is installed on a grounded lighting component or equipment, the power supply needs to be grounded.
4	Wiring confirmation	· Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.
5	Repair suggestions	· If the product malfunctions, please do not repair it without authorization. If you have any questions, please contact the supplier or sales team for assistance.

※ The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail. Please contact us if you have any questions .

Warranty Agreement

1. Warranty periods from the date of delivery : 5 years.
2. Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

The following situations are not covered by the free warranty or replacement service:

1. Exceeding the warranty period.
2. Damage caused by human factors such as high voltage, overload, and improper operation.
3. The appearance of the product is severely damaged or deformed.
4. Normal wear and tear or aging during regular product use.
5. Damage caused by natural disasters or force majeure factors.
6. The quality inspection label of the product is damaged (QC PASS).
7. No contract or valid invoice proof signed with EUCHIPS has been provided.

※ Remedies: Repair or replacement is the only remedy provided by EUCHIPS to the customer, and EUCHIPS shall not be liable for incidental damages arising from repair or replacement, unless within the scope of applicable law.

※ Adjustment of Warranty Terms: EUCHIPS reserves the right to modify or adjust the warranty terms, which shall be published in writing.