## LTECH

## LED Intelligent CT Driver (constant voltage)

- Dimming interface: DMX512/RDM, Push DIM/CCT
- 2 independently SELV constant voltage output channels
- Constant power design, adjust different color temperature to keep the same brightness
- Supports RDM remote device management protocol.
- Dimming range from 0-100\%, LED start at $0.1 \%$ possible
- With soft-on and fade in function, visual more comfortable.
- Color temperature adjusting range: $2700-6500 \mathrm{~K}$
- 0-100\% flicker-free,High frequency exemption level.
- High efficient driver: efficiency $93 \%, \mathrm{PF}>0.98$, THD $<6 \%$.
- In line with the EU energy efficiency ERP directive, standby power consumption < 0.5W
- Innovative thermal management technology, intelligent power life protection.
- Over-heat / Over voltage / Over load / Short circuit protection, recover automatically
- Fully-protected plastic housing with design of dismountable end cover.
- Suitable for indoor I/I/III type lamps application.
- 5 years warranty (Rubycon capacitor).


| DMX/RDM PUSH DIM |  |  | NHL | (n) |  |  |
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## Specification

| Model |  | LM-150-24-G2M2 | LM-150-12-G2M2 |
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| OUTPUT | Output Voltage | 24 Vdc | 12 Vdc |
|  | Output Voltage Range | $24 \mathrm{Vdc} \pm 0.5 \mathrm{Vdc}$ | $12 \mathrm{Vdc} \pm 0.5 \mathrm{Vdc}$ |
|  | Output Current | Max. 6.25A | Max. 12.5A |
|  | Output Power | Max. 150W |  |
|  | Output Power Range | 0~150W |  |
|  | Strobe Level | High frequency exemption level. |  |
|  | PWM Frequency | 3600 Hz |  |
|  | Dimming Range | 0~100\%, dimming depth: Max. $0.1 \%$ |  |
|  | Overload Power Limitation | $\geqslant 102 \%$ |  |
|  | Ripple \& Noise | Switch ripple $\leqslant 200 \mathrm{mV}$, noise $\leqslant 500 \mathrm{mV}$ | Switch ripple $\leqslant 200 \mathrm{mV}$, noise $\leqslant 800 \mathrm{mV}$ |
|  | Dimming Interface | DMX512/RDM,Push DIM/CCT |  |
|  | Input Voltage | 220-240Vac $200-280 \mathrm{Vdc}$ |  |
|  | Frequency | $50 / 60 \mathrm{~Hz}$ |  |
|  | Input Current | Max. 0.75A/230Vac |  |
| INPUT | Power Factor | PF>0.98/230Vac, at full load |  |
|  | THD | <6\% at 230Vac, at full load |  |
|  | Efficiency (typ.) | 93\% | 92\% |
|  | Standby Power Loss | $<0.5 \mathrm{~W}$ |  |
|  | Inrush Current(typ.) | Cold start 45A at 230Vac |  |
|  | Control surge capability | L-N:2KV |  |
|  | Leakage Current | $\text { Max. } 0.5 \mathrm{~mA}$ |  |
| ENVIRONMENT | Working Temperature | ta: $-20^{\circ} \mathrm{C} \sim 50^{\circ} \mathrm{C}$ tc: $85^{\circ} \mathrm{C}$ |  |
|  | Working Humidity | $20 \sim 95 \%$ RH, non-condensing |  |
|  | Storage Temp., Humidity | $-40^{\circ} \mathrm{C} \sim 80^{\circ} \mathrm{C}, 10 \sim 95 \% \mathrm{RH}$ |  |
|  | Temp. Coefficient | $\pm 0.03 \% /{ }^{\circ} \mathrm{C}\left(0-50^{\circ} \mathrm{C}\right)$ |  |
|  | Vibration | $10 \sim 500 \mathrm{~Hz}, 2 \mathrm{G} 12 \mathrm{~min} . / 1$ cycle, period for 72 min . each along $\mathrm{X}, \mathrm{Y}, \mathrm{Z}$ axes. |  |
| PROTECTION | Over-heat Protection | Intelligently adjusting or turning off the output current if the PCB temperature $\geq 110^{\circ} \mathrm{C}$, auto recovers. |  |
|  | Over Voltage Protection | Shut down the output when non-load voltage $\geqslant 28 \mathrm{~V}$, re-power on to recover after fault condition is removed. | Shut down the output when non-load voltage $\geqslant 16 \mathrm{~V}$, re-power on to recover after fault condition is removed. |
|  | Over Load Protection | Shut down the output when current load $\geqslant 102 \%$, auto recovers. |  |
|  | Short Circuit Protection | Enter hiccup mode if short circuit occurs, auto recovers. |  |
| SAFETY \& EMC | Withstand Voltage | I/P-0/P: 3750Vac |  |
|  | Isolation Resistance | I/P-0/P: $100 \mathrm{M} \Omega / 500 \mathrm{VDC} / 25^{\circ} \mathrm{C} / 70 \% \mathrm{RH}$ |  |
|  | Safety Standards | IEC/EN61347-1, IEC/EN61347-2-13 |  |
|  | EMC Emission | En55015, EN61000-3-2 Class C, IEC61000-3-3 |  |
|  | EMC Immunity | EN61000-4-2,3,4,5,6,8,11 EN61547 |  |
|  | Strobe Test Standard | IEEE 1789 |  |
| OTHERS | Weight(G.W.) | $430 \mathrm{~g} \pm 10 \mathrm{~g}$ |  |
|  | Dimensions | $352 \times 43 \times 30 \mathrm{~mm}(\mathrm{~L} \times \mathrm{W} \times \mathrm{H})$ |  |
|  | Package Size | $355 \times 44 \times 33 \mathrm{~mm}(\mathrm{~L} \times \mathrm{W} \times \mathrm{H})$ |  |
|  | Coton Size | $\square 370 \times 340 \times 93 \mathrm{~mm}(\mathrm{~L} \times \mathrm{W} \times \mathrm{H}) 20 \mathrm{pcs} / \mathrm{ctn} 9.4 \mathrm{~kg} \pm 5 \% / \mathrm{ctn} \quad \square 370 \times 340 \times 156 \mathrm{~mm}(\mathrm{~L} \times \mathrm{W} \times \mathrm{H}) 30 \mathrm{pcs} / \mathrm{ctn} 13.7 \mathrm{~kg} \pm 5 \% / \mathrm{ctn}$ |  |

[^0]
## Dimensions

Unit: mm


## Wiring Diagram



## Push DIM/CCT Connection



* Adopting constant power program design, it keeps the same brightness in color temperature dimming,
twice the rated power load can be connected.
150 W driver, $150 \mathrm{~W} \times 2 \mathrm{CH}$ load can be connected, the total power of the 2 channels will be kept in 150 W .


Push DIM/CCT


DIM

- On/off control: Short press.
- Stepless dimming: Long press.
- 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

CCT

- Color temperature adjustment: Long press.
- With every other long press, the color temperature level goes to the opposite direction.
- Color temperature memory: Color temperature will be the same as previously adjusted when turning off and on again.


## 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 .


## LTECH RDM editor App interface instruction

Download the App, setting the parameters after well connecting the RDM editor, please check the manual of WiFi-RDM01 for more details

a: Click"Add", edited the address in corresponding box.
b: Click"ID", get more product details.
c: Click" $\{0\}$
d: Click"No.", issue the recognizing command.


Test


DMX address setting

## Application of Protective Cover

## Wire pressing board:



Push outward the side plate,
meanwhile use the tool to uninstall the wire pressing board.

## Uninstall protective cover:



Break off the bottom left and right to remove the protective cover.

## Relationship Diagrams



Flicker Test Form


## 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.

[^0]:    The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current wilt be dozens of times times increased if connecting buitt-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.), then we can prepare the special programs.

