## Intelligent LED Driver

- Dimming interface: 0-10V (1-10V/10VPWM/RX)
- T-PWM ${ }^{T M}$ dimming technology allows continuous and flicker-free images under high-speed photography.
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- Automatically recognize $0-10 \mathrm{~V}$ and $1-10 \mathrm{~V}$ input signal.
- DIP switch fast multi gear current selection
- Dimming from 0~100\%, down to 0.1\%.
- The whole dimming process is flicker-free with high frequency exemption level.
- Ultra-low consumption of $0-10 \mathrm{~V}$ ports $<0.05 \mathrm{~mA}$.
- Innovative thermal management technology intelligently protects the life of the LED driver.
- Overheat, over voltage, overload, short circuit protection and automatic recovery
- Suitable for Class I / II/III indoor light fixtures.
- Up to 50,000 -hour life time.
- 5 -year warranty (Rubycon capacitor).


Flicker Free ${ }^{10 \mathrm{~V} P \mathrm{Pm}}$ IEEE 1789 RX

Technical Specs


## LED Current Selection

DIP switch quickly selects 8 －gear current value

| SE－12－100－450－W2A | DIP Switch | 】 】 】 | 】 $\downarrow$ 「 | 】甲】 | 胛甲 | $\boldsymbol{\top} \downarrow$ | 甲 ¢ | 甲甲 | 甲甲甲 | $\begin{gathered} \hline \boldsymbol{q} \\ \mathrm{ON} \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Output Current | 100 mA | 150 mA | 200 mA | 250 mA | 300 mA | 350 mA | 400 mA | 450 mA |  |
|  | Output Voltage | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | 9－42V | $9-40 \mathrm{~V}$ | $9-34 \mathrm{~V}$ | 9－30V | 9－27V |  |
|  | Output Power | 0．9－4．2W | 1．35－6．3W | $1.8-8.4 \mathrm{~W}$ | 2．25－10．5W | 2．7－12W | $3.15-11.9 \mathrm{~W}$ | 3．6－12W | 4．05－12．15W |  |

＊After setting the current via DIP switches，power off and then power on the driver to make the new current setting effective．
＊E．g．LED 3V／pcs： $9-42 \mathrm{~V}$ can power $3-14$ pcs LEDs in series， $9-21.5 \mathrm{~V}$ can power $3-7 \mathrm{pcs}$ LEDs，the max quantity of LEDs in series will be subject to the actual voltage of LEDs

## Product Size

Unit：mm


Wiring Diagram


## Installation Precautions



Please do not stack the products. The distance between two products should be $\geqslant 15 \mathrm{~cm}$ so as not to affect heat dissipation and the lifespan of the products.


Please not place the products on LED drivers. The distance between the product and the driver should be $\geqslant 15 \mathrm{~cm}$ so as not to affect heat dissipation and shorten the lifespan of the products.

Relationship Diagrams

Efficiency VS Load



Power Factor VS Load


Flicker Test Form


Packaging Specifications

| Model | SE-12-100-450-W2A |
| :--- | :--- |
| Carton Dimensions | $260 \times 235 \times 195 \mathrm{~mm}(\mathrm{~L} \times \mathrm{W} \times \mathrm{H})$ |
| Quantity | $20 \mathrm{PCS} /$ Layer; 5 Layers/Carton; $100 \mathrm{PCS} /$ Carton |
| Weight | $0.077 \mathrm{~kg} / \mathrm{PC} ; 15.75 \mathrm{~kg} \pm 5 \% /$ Carton |

Packaging Image


## 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

- This product must be installed and adjusted by a qualified professional.
- This product is 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 life the product. Please install the product in a environment with good ventilation
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
- Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.
* 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.

0-10V

## Update Log

| Version | Updated Time |  | Update Content |
| :---: | :---: | :---: | :---: |
| AO | 2022.12 .19 | Original version |  |

