Intelligent Tunable White LED Driver (Constant Current)

- Housing made from SAMSUNG/COVESTRO's Vo flame retardant PC materials.
- Ultra small, thin and lightweight, screwless end cap
- Change the output current, dimming mode and other parameters via the APP.
- Adjustable output current with 1 mA step.
- Automatically recognize $0-10 \mathrm{~V}$ and 1-10V input signal.
- Ultra-low consumption of $0-10 \mathrm{~V}$ ports $<0.05 \mathrm{~mA}$.
- Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWM ${ }^{\text {TM }}$ super deep dimming technology, $0.01 \%$ dimming depth.
- The whole dimming process is flicker-free with high frequency exemption level.
- Comply with the EU's ErP Directive, networked standby<0.5W.
- When there is no load, the output will be OV to prevent damage to LEDs due to poor contact.
- Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Suitable for Class I / II / III indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5 -year warranty (Rubycon capacitor).

4 in 1 dimming
0-10V
1-10V
10V PWM
RX
DIM/CT

Flicker Free
IEEE 1789
Dimmable:
$10000: 1$

$N F C \cdot)$
Multic curent $\underbrace{\text { NF()) }}_{\substack{\text { Multi current } \\ \text { seting }}}$


## Technical Specs



## LTECH

## Product Size

Unit: mm


Minimum hole size: $\varphi 48 \mathrm{~mm}\left(1,89^{\prime \prime}\right)$

Wiring Diagram

0-10V Connection

1. Brightness adjustment

2. Color temperature adjustment

3. Brightness and color temperature adjustment respective

4. Brightness and color temperature adjustment simultaneous


Four-wire LED connection


* Adopting constant power program design, it keeps the same brightness in color temperature dimming, twice the rated power load can be connected.
20 W driver, $20 \mathrm{~W} \times 2 \mathrm{CH}$ load can be connected, the total power of the 2 channels will be kept in 20 W


Table of Typical Corresponding Parameters for Current

| The typical 13 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with $100-700 \mathrm{~mA}$ adjustable in 1 mA step |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Output Current | 100 mA | 150 mA | 200 mA | 250 mA | 300 mA | 350 mA | 400 mA |
| Output Voltage | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ |
| Output Power | 0.9-4.2W | 1.35-6.3W | 1.8-8.4W | 2.25-10.5W | $2.7-12.6 \mathrm{~W}$ | 3.15-14.7W | $3.6-16.8 \mathrm{~W}$ |
|  |  |  |  |  |  |  |  |
| Output Current | 450 mA | 500 mA | 550 mA | 600 mA | 650 mA | 700 mA | 1 |
| Output Voltage | $9-42 \mathrm{Vdc}$ | $9-40 \mathrm{Vdc}$ | $9-37 \mathrm{Vdc}$ | $9-34 \mathrm{Vdc}$ | $9-31 \mathrm{Vdc}$ | $9-28.5 \mathrm{Vdc}$ | 1 |
| Output Power | 4.05-18.9W | 4.5-20W | 4.95-20.35W | $5.4-20.4 \mathrm{~W}$ | 5.85-20.15W | 6.3-19.95W | 1 |

## Application Diagram of Protective Cover



1. Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.

2. Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

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. working temperature that may affect the product lifetime.

## LTECH

## Use the NFC Lighting APP

Scan the QR code below with your mobile phone and follow the prompts to complete the APP installation（According to performance requirements，you need to use a NFC－capable Android phone，or an iphone 8 and later that are compatible with iOS 13 or higher）．

＊Before you begin setting the parameters of the driver，please make sure the driver is powered off．

## Read／Write the LED driver

Use your NFC－capable phone to read LED driver data，then edit the parameters and they can be directly written to the driver．

## 1．Read the LED driver

On the APP home page，click 【Read／Write LED driver】，then keep the programmer＇s sensing area close to the NFC logo of the driver to read the driver parameters．


2．Edit the parameters
Click【Parameter settings】to edit the advanced parameters，like output current，dimming mode，low power mode，etc

## 3．Write to the driver

After completing the parameter settings，click 【Write】in the upper right corner，and keep the programmer＇s sensing area close to the NFC logo of the driver，so the parameters can be written to the driver．


## LTECH

Relationship Diagrams


SE-20-100-700-W2A

Flicker Test Sheet


## Packaging Specifications

| Model | SE-20-100-700-W2A |
| :--- | :--- |
| Carton Dimensions | $290 \times 275 \times 106 \mathrm{~mm}(\mathrm{~L} \times \mathrm{W} \times \mathrm{H})$ |
| Quantity | $20 \mathrm{PCS} /$ Layer; 2 Layers/Carton; $40 \mathrm{PCS} /$ Carton |
| Weight | $0.11 \mathrm{~kg} / \mathrm{PC} ; 5.2 \mathrm{~kg} \pm 5 \% /$ Carton |

[^0]nner Packaging Box


Carton Packaging

## 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.

## Update Log

| Version | Updated Time | Update Content | Updated by |
| :---: | :---: | :---: | :---: |
| A0 | 2023.05.23 | Original version | Yang Weiling |


[^0]:    Packaging Image

