Intelligent Tunable White LED Driver (Constant Current)

- Housing made from SAMSUNG/COVESTRO's V0 flame retardant PC materials.
- Ultra small, thin and lightweight, screwless end cap.
- Change the output current, Dimming mode and other parameters on the NFC programmer or via the App, and sync the parameters to the driver.
- Set the output current down to 1 mA .
- Automatically recognize 0-10V and 1-10V input signal.
- Ultra-low consumption of $0-10 \mathrm{~V}$ ports $<0.05 \mathrm{~mA}$.
- Class 2 LED driver, Safety Extra Low Voltage (SELV).
- Soft-on and fade-in dimming function enhances your visual comfort
- $\mathrm{T}-\mathrm{PWM}{ }^{\text {TM }}$ dimming technology allows quality and high-end lighting.
- The whole dimming process is flicker-free with high frequency exemption level.
- Comply with the EU's ErP Directive, networked standby<0.5W.
- Multiple current levels, wide voltage range, suitable for LEDs with different power
- 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

## T-PWMMTM

Flicker Free
IEEE 1789
Dimmable:
$10000: 1$



Technical Specs


## 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


Wire diameter: 0.5-1.5 ${ }^{\circ}$ (22-16AWG) Strip length: $5-6 \mathrm{~mm}$

Strip length: $5-6 \mathrm{~mm}$
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.
40 W driver, $40 \mathrm{~W} \times 2 \mathrm{CH}$ load can be connected, the total power of the 2 channels will be kept in 40 W


Current and Parameters Sheet

| Set output current on the NFC programmer or via the App |  |  |  |
| :--- | :--- | :---: | :---: |
| SE-40-300-1050-W2A | Output Current (I) Range | $300-952 \mathrm{~mA}$ | $953-1050 \mathrm{~mA}$ |
|  | Output Voltage (U) Range | $9-42 \mathrm{Vdc}$ | See the curve below for details |
|  | Output Power (P) Range | $2.7-40 \mathrm{~W}$ | $8.577-40 \mathrm{~W}$ |


| Set output current on the NFC programmer or via the App |  |  |  |
| :---: | :---: | :---: | :---: |
| SE-30-200-800-W2A | Output Current (I) Range | $200-714 \mathrm{~mA}$ | $715-800 \mathrm{~mA}$ |
|  | Output Voltage (U) Range | $9-42 \mathrm{Vdc}$ | See the curve below for details |
|  | Output Power (P) Range | $1.8-30 \mathrm{~W}$ | $6.435-30 \mathrm{~W}$ |



SE-40-300-1050-W2A

Protective Housing Application Diagram

Installation Precautions


SE-30-200-800-W2A


## Work with a NFC programmer（LT－NFC）

Change the output current，power－on fading time and other parameters on the NFC programmer．After modification，batch parameters can be written to the driver
＊Before you begin setting the parameters of the driver on the NFC programmer，please make sure the driver is powered off．


1．Read the LED driver
Power the programmer by using the USB cable，then select＂NFC Driver Settings＂and press＂OK＂button．Next，keep the programmer＇s sensing area close to the NFC logo of the driver to read the driver parameters．

2．Change the driver parameters（Output current／Power－on fading time）
On the home page of the programmer，press＂ $\boldsymbol{\Delta v}$＂button to select the parameters you want to change and press the＂OK＂button to edit them．Then，press＂$\Delta \boldsymbol{v}$＂button to adjust the parameter values and press＂\＆＂to select the next needed value．After the parameter values are modified，save them by pressing the＂OK＂button．
Note：（1）If the current value you set is out of range，The programmer will report an error；（2）Power－on fading time range：0－9s．

## 3．Write to the driver

On the home page of the programmer，press the＂$\Delta \boldsymbol{\nabla}$＂button to select 【 »Ready to Write】，then press the＂OK＂button．After the screen displays＂Ready to write．．．＂，please keep the programmer＇s sensing area close to the NFC logo of the driver．When the screen displays＂Write succeeded＂，it means the parameters have been successfully changed．

| NFC Driver Settings |
| :--- |
| APP Solutions |
| BLE Connection |


| Iout： $300 \mathrm{~mA} 9-42 \mathrm{~V}$ |
| :--- |
| Address： $10+0$ |
| Fade Time：0s |
| 7）Ready to write |
| SE－40－300－1050－W2A |

## 



| Write succeeded |
| :--- |
| SE－40－300－1050－W2A |

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 on the NFC programmer or via the APP，please make sure the driver is powered off．

## Read／Write the LED driver

Use your NFC－capable phone to read the driver parameters，then set the output current，dimming mode，low power mode，other parameters．Save your settings and hold your phone close to the driver again，so the parameters can be easily 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，ow power mode，adjustable voltage，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．


## Write／Read on the NFC programmer

Connect the NFC programmer to your phone and read the driver parameters with your phone．After editing the solution in the mobile App，you can sync it to the NFC programmer and write advanced parameters to mass LED drivers．

1．Connect to the NFC programmer
Enable Bluetooth on your phone and power the NFC programmer first．Then press the button on the programmer to switch to＂BLE Connection＂and press＂OK＂button to wait for Bluetooth connection． On the APP home page，click【Write／Read on NFC programmer】－【Next】 to search for the programmer and connect to it．

2．Read the LED driver
On the＂Programmer information＂page，choose any solution for editing．Then keep the programmer＇s sensing area close to the NFC logo of the driver，to read the driver parameters，

3．Edit the parameters
Click【Parameter settings】to edit the advanced parameters，like output current，dimming mode，ow power mode，adjustable voltage，etc．Then click【Save】in the top right

4．Write to the LED driver
When the programmer screen shows＂Sync ．．．succeeded＂，click＂BACK＂button to return to the home page and switch to the＂APP Solutions＂，then press the＂OK＂button to access the optional solu－ tions．Select the corresponding solution by pressing the＂＂＂button，then keep the programmer＇s sensing area close to the NFC logo of the driver．After this，the advanced solution can be written to a large number of the same model drivers．


| SOL1 SOL2 SOL3 |  |
| :--- | :--- |
| lout：1050mA 9－42V | Write succeeded |
| Fade Time：3s |  |
| 3）Ready to write |  |
| SE－40－300－1050－W2A | SE－40－300－1050－W2A |

For more advanced solution settings，please scan the QR code below and check out the NFC programmer manual（model：LT－NFC）．


## Relationship Diagrams



SE-40-300-1050-W2A


Flicker Test Sheet


Packaging Specifications

| Model | SE-40-300-1050-W2A | SE-30-200-800-W2A |
| :--- | :--- | :--- |
| Carton Dimensions | $320 \times 275 \times 106 \mathrm{~mm}(\mathrm{~L} \times \mathrm{W} \times \mathrm{H})$ | $320 \times 275 \times 106 \mathrm{~mm}(\mathrm{~L} \times \mathrm{W} \times \mathrm{H})$ |
| Quantity | $20 \mathrm{PCS} /$ Layer; 2 Layers/Carton; $40 \mathrm{PCS} /$ Carton | $20 \mathrm{PCS} /$ Layer; 2 Layers/Carton; $40 \mathrm{PCS} /$ Carton |
| Weight | $0.17 \mathrm{~kg} / \mathrm{PC} ; 7.6 \mathrm{~kg} \pm 5 \% /$ Carton | $0.15 \mathrm{~kg} / \mathrm{PC} ; 6.8 \mathrm{~kg} \pm 5 \% /$ 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.

## Update Log

| Version | Updated Time | Update Content | Updated by |
| :---: | :---: | :---: | :---: |
| A0 | 2023.02.23 | Original version | Liu Weili |

