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 dimming interface, output current, DALI address and other parameters via the APP.
- Set the DALI group and scene in the advanced DALI template via the APP
- Adjustable output current with 1 mA step.
- 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).


Timming Technology
Flicker Free
IEEE 1789

## Dimmable <br> 10.1.1.ाIIII!




## Technical Specs



## Product Size

Unit: mm


Wiring Diagram

## DALI Connection



Wire diameter: 0.75-1.5 (22-16AWG) Strip length: $5-6 \mathrm{~mm}$
Dimming: 0~100\%
Color temperature: 1000-10000K

Wire diameter: 0.5-1.5² ${ }^{\text {[ }}$ 22-16AWG]
Strip length: $5-6 \mathrm{~mm}$

* Adopting constant power program design, it keeps the same brightness in color temperature dimming, and twice the rated power load can be connected.
e.g. A 40 W driver can connect to $40 \mathrm{~W} \times 2 \mathrm{CH}$ load, but the total power of the 2 channels will be kept in 40 W



## Table of Typical Corresponding Parameters for Current

The typical 16 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 300-1050mA adjustable in 1 mA step

| SE-40-300-1050-W2D | Output Current | 300 mA | 350 mA | 400 mA | 450 mA | 500 mA | 550 mA | 600 mA | 650 mA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Output Voltage | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ |
|  | Output Power | 2.7-12.6W | $3.15-14.7 \mathrm{~W}$ | 3.6-16.8W | 4.05-18.9W | 4.5-21W | 4.95-23.1W | 5.4-25.2W | 5.85-27.3W |
|  | Output Current | 700 mA | 750 mA | 800 mA | 850 mA | 900 mA | 950 mA | 1000 mA | 1050 mA |
|  | Output Voltage | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-40 \mathrm{Vdc}$ | $9-38 \mathrm{Vdc}$ |
|  | Output Power | 6.3-29.4W | 6.75-31.5W | 7.2-33.6W | 7.65-35.7W | 8.1-37.8W | 8.54-39.9W | 9-40W | $9.45-40 \mathrm{~W}$ |

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 200-800 mA adjustable in 1 mA step

| SE-30-200-800-W2D | Output Current | 200 mA | 250 mA | 300 mA | 350 mA | 400 mA | 450 mA | 500 mA | 550 mA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Output Voltage | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ |
|  | Output Power | 1.8-8.4W | 2.25-10.5W | $2.7-12.6 \mathrm{~W}$ | $3.15-14.7 \mathrm{~W}$ | 3.6-16.8W | 4.05-18.9W | 4.5-21W | 4.95-23.1W |
|  | Output Current | 600 mA | 650 mA | 700 mA | 750 mA | 800 mA | 1 | 1 | 1 |
|  | Output Voltage | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-42 \mathrm{Vdc}$ | $9-40 \mathrm{Vdc}$ | $9-37.5 \mathrm{Vdc}$ | 1 | 1 | 1 |
|  | Output Power | 5.4-25.2W | 5.85-27.3W | 6.3-29.4W | 6.75-30W | 7.2-30W | 1 | 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.

## 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 or the lifetime of the products.
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


Note: The temperature within the installation area should be within the working temperature range of the products. Please do not install products inside LED fixtures to avoid temperature exceeding the working temperature that may affect the product lifetime.

## 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．Switch the dimming interface
On the page of＂Edit parameters＂，click【Dimming interfaces】 to switch to the needed dimming interface：DT8 CT（DT8 1 channel），DT6 CT（DT6 2 channels），DT6 DIM（1 address for 1 channel／ 1 address for 2 channels $/ 2$ addresses for 2 channels）．


1 address for 1 channel


1 address for 2 channels


2 addresses for 2 channels

## 3．Edit the parameters

Click【Parameter settings】 to edit the advanced parameters，like output current，DALI address，dimming curve，advanced DALI template，etc．

## 4．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．


## Advanced DALI template

Integrate the functions of the DALI lighting system，edit the DALI group and lighting effects for scenes，then save them in the advanced template to achieve lighting programming． Setup page（for Read／Write LED driver）：Go to App home page－【＠】 icon in the top right－【DALI template on pnone】


Relationship Diagrams






SE-30-200-800-W2D

Flicker Test Sheet


## Packaging Specifications

| Model | SE-40-300-1050-W2D | SE-30-200-800-W2D |
| :--- | :--- | :--- |
| 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 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



Inner 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

- Products shall be installed by qualified professionals
- LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices
- Good heat dissipation will prolong 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.

## FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator \& your body.

## FCC Warnin

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reaso able protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

## Update Log

| Version | Updated Time | Update Content | Updated by |
| :---: | :---: | :---: | :---: |
| A0 | 2022.10.09 | Original version | Liu Weili |
| A1 | 2023.07.28 | Remove the description of the NFC programmer | Liu Weili |

