

# 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 1mA
- Automatically recognize 0-10V and 1-10V input signal.
- Ultra-low consumption of 0-10V ports < 0.05mA.
- Class 2 LED driver, Safety Extra Low Voltage (SELV).
- Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWM™ dimming technology allows quality and high-end lighting.
- The whole dimming process is flicker-free with high frequency exemption level.
- $\bullet\,$  Comply with the EU's ErP Directive, networked standby<0.5W.
- $\bullet\,$  Multiple current levels, wide voltage range, suitable for LEDs with different power
- When there is no load, the output will be 0V to prevent damage to LEDs due to poor contact.
- Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Suitable for Class | / || / || 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







10000 : 1













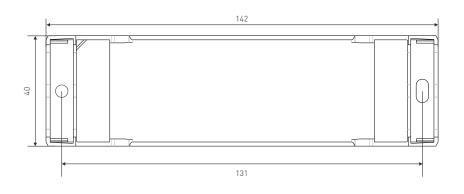
### Technical Specs

SE-30-200-800-W2A     200-800mA     1.8W-30W     <0.34A/115Vac, <0.17A/230Vac     87%
1.8W-30W <0.34A/115Vac, <0.17A/230Vac 87%
<0.34A/115Vac, <0.17A/230Vac 87%
87%
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87%
er. Automatically recover once load is reduced
When the PCB temperature <90°C, automatically recover normal outpu
can be recovered automatically
N 62493
N61547
N61547
3S EN 61000-3-3, BS EN 61547
xemption level
<u> </u>
150g±10g

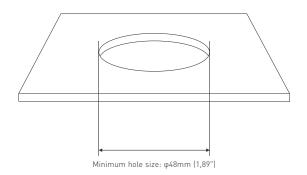


## **Product Size**

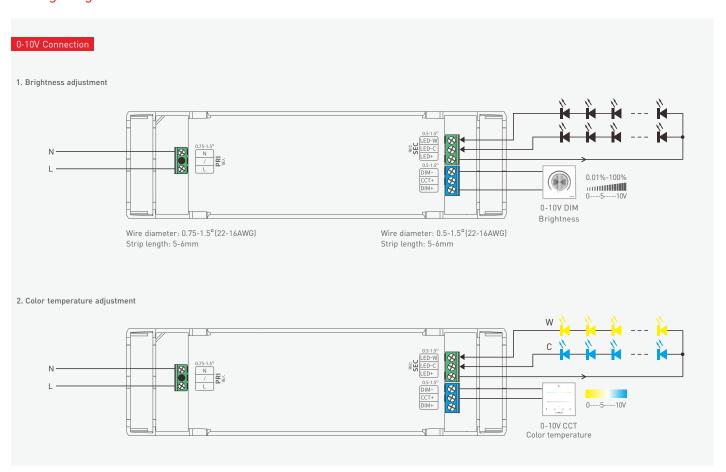
Unit: mm





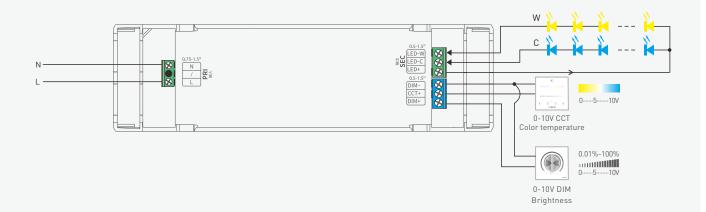


# Wiring Diagram

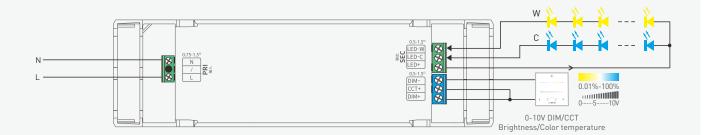




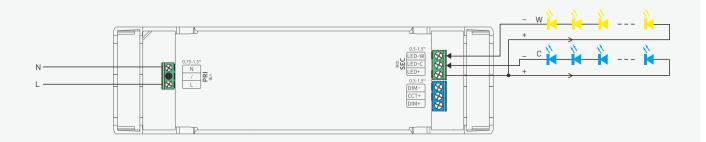
### 3. Brightness and color temperature adjustment respective



### 4. Brightness and color temperature adjustment simultaneous $% \left( 1\right) =\left( 1\right) \left( 1\right)$

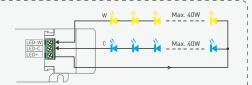


### Four-wire LED connection



\* 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 W X 2CH load can be connected, the total power of the 2 channels will be kept in 40 W.

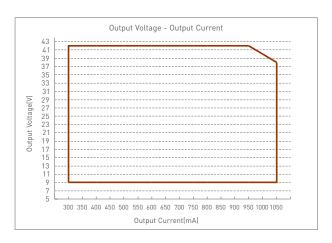




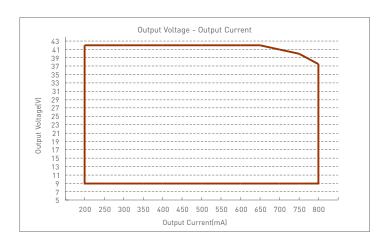
### **Current and Parameters Sheet**

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

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

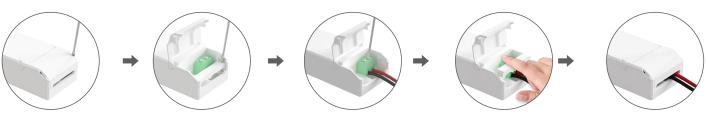


SE-40-300-1050-W2A



SE-30-200-800-W2A

# Protective Housing Application Diagram



1. Use a tool to pry up the protective housing on the side panel.

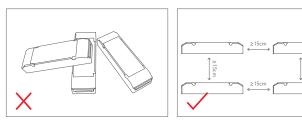
2. Pry up the protective housing in the side plate position with a tool.

3. Connect to electrical wires with a screwdriver as wiring diagram shows.

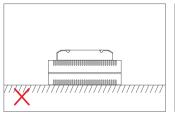
4. Press down the tension plate to fix the the electrical wires.

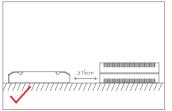
5. Close the protective housing.

## **Installation Precautions**



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



## 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.

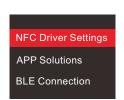
#### 2. Change the driver parameters (Output current/Power-on fading time)

On the home page of the programmer, press "Av" button to select the parameters you want to change and press the "OK" button to edit them. Then, press "Av" button to adjust the parameter values and press "de "OK" button.

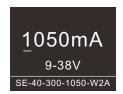
Note: (1) If the current value you set is out of range, The programmer will report an error; (2) Power-on fading time range: 0-9s.

#### 3. Write to the driver

On the home page of the programmer, press the " A v" 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.











## 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

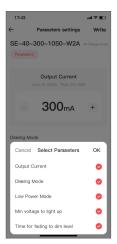
Click [Parameter settings] to edit the advanced parameters, like output current, dimming mode, ow power mode, adjustable voltage, etc.

### 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 solutions. 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.



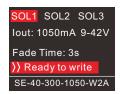












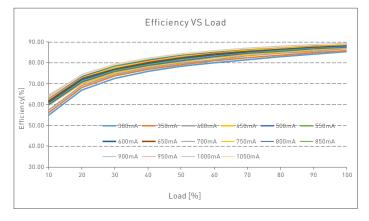


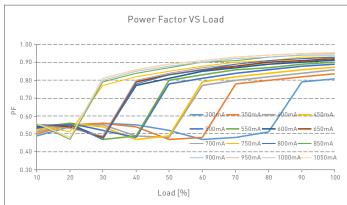
For more advanced solution settings, please scan the QR code below and check out the NFC programmer manual (model: LT-NFC).



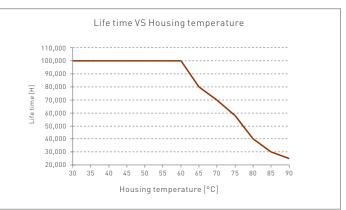


## Relationship Diagrams

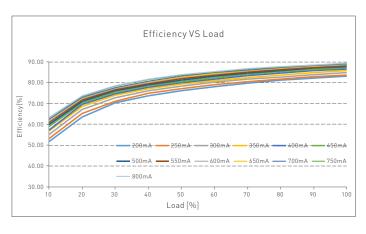


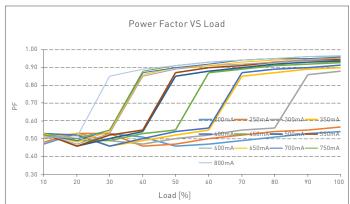


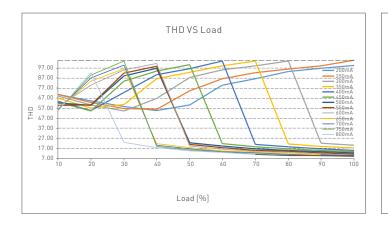


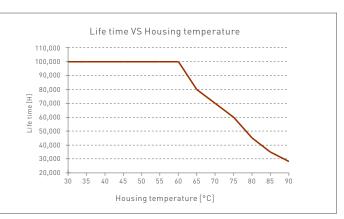


SE-40-300-1050-W2A





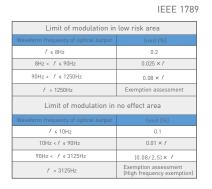


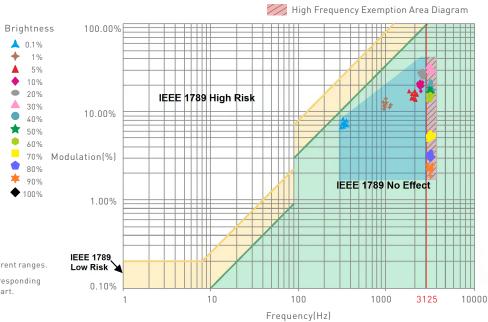


Modulation Area Diagram



### Flicker Test Sheet





 $\label{thm:marks} \textbf{Marks in the right chart were tested results of different current ranges.}$ 

The output frequeny is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

## **Packaging Specifications**

Model	SE-40-300-1050-W2A	SE-30-200-800-W2A
Carton Dimensions	320×275×106mm(L×W×H)	320×275×106mm(L×W×H)
Quantity	20 PCS/Layer; 2 Layers/Carton; 40 PCS/Carton	20 PCS/Layer; 2 Layers/Carton; 40 PCS/Carton
Weight	0.17 kg/PC; 7.6 kg±5%/Carton	0.15 kg/PC; 6.8 kg±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**

- 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.
- $\bullet \quad \mathsf{Good} \ \mathsf{heat} \ \mathsf{dissipation} \ \mathsf{will} \ \mathsf{extend} \ \mathsf{the} \ \mathsf{life} \ \mathsf{the} \ \mathsf{product}. \ \mathsf{Please} \ \mathsf{install} \ \mathsf{the} \ \mathsf{product} \ \mathsf{in} \ \mathsf{a} \ \mathsf{environment} \ \mathsf{with} \ \mathsf{good} \ \mathsf{ventilation}.$
- 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.
- $\bullet \quad \text{Please check whether the working voltage used complies with the parameter requirements of the product.}\\$
- 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.
- $\bullet \quad \text{Free repair or replacement services for quality problems are provided within warranty periods}.$

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.
- $2.\,\mathsf{LTECH}\ \mathsf{has}\ \mathsf{the}\ \mathsf{right}\ \mathsf{to}\ \mathsf{amend}\ \mathsf{or}\ \mathsf{adjust}\ \mathsf{the}\ \mathsf{terms}\ \mathsf{of}\ \mathsf{this}\ \mathsf{warranty}, \ \mathsf{and}\ \mathsf{release}\ \mathsf{in}\ \mathsf{written}\ \mathsf{form}\ \mathsf{shall}\ \mathsf{prevail}.$



# **Update Log**

Version	Updated Time	Update Content	Updated by
Α0	2023.02.23	Original version	Liu Weili