

Intelligent LED Driver (Constant Current)

- The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTR0.
- Ultra-small, thin and light screwless end cap.
- Change the output current, fade time 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.
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- + T-PWM^ Super depth dimming technology, dimming depth can reach 0.0001%

SE-20-100-700-W1B

- 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.

Model

- Suitable for Class | / || / ||| indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor)

Technical Specs



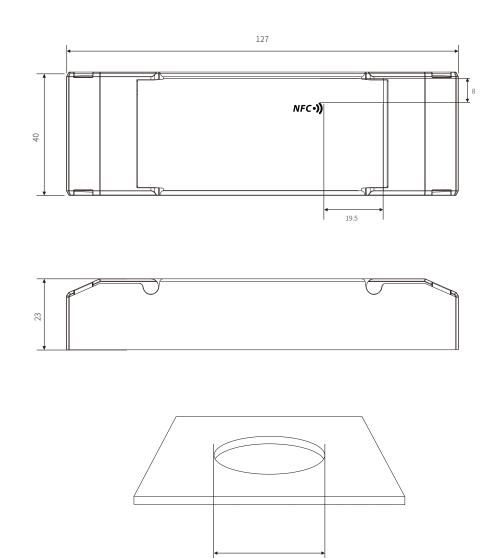


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Flicker/Stroboscopic Effect CIE SVM Pst LM<1.0, SVM<0.4									
CIE SVM Pst LM<1.0, SVM<0.4	ErP		IEEE 1789		Meet IEEE 1789 standard/High frequency exemption level				
DF Phase factor DF>0.9 OTHERS Weight[N.W.] 105g±10g					Pst LM≤1.0,SVM≤0.4				
OTHERS Weight(N.W.) 105g±10g									
01HERS					UF #U.7				
Dimensions 127×40×23mm(L×W×H)	OTHERC	Weight(N.W.)	105g±10)g					
	UTHERS	Dimensions	127×40×	23mm(L×W×H)					
				· ·					



Product Size

Unit: mm



Minimum hole size: $\phi48mm$ (1,89")

Wiring Diagram

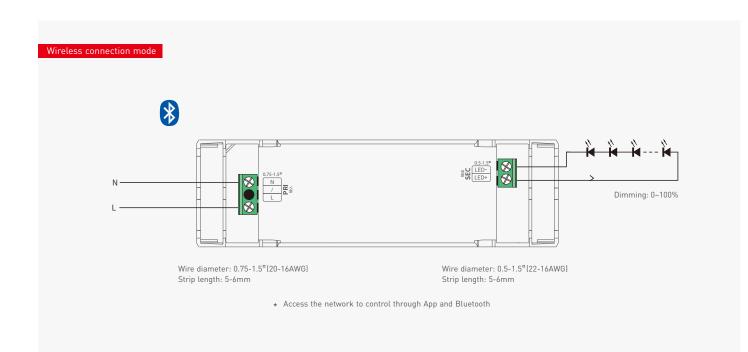




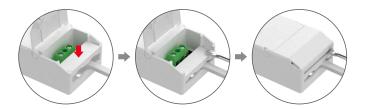
Table of Typical Corresponding Parameters for Current

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 100-700mA adjustable in 1mA step							
Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA
Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc
Output Power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12.6W	3.15-14.7W	3.6-16.8W
Output Current	450mA	500mA	550mA	600mA	650mA	700mA	/
Output Voltage	9-42Vdc	9-40Vdc	9-37Vdc	9-34Vdc	9-31Vdc	9-28.5Vdc	/
Output Power	4.05-18.9W	4.5-20W	4.95-20.35W	5.4-20.4W	5.85-20.15W	6.3-19.95W	/

Application Diagram of Protective Cover

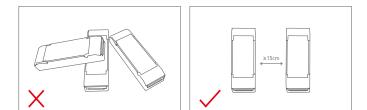


 Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.

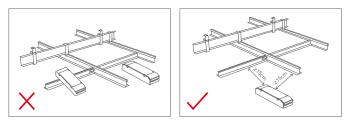


Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

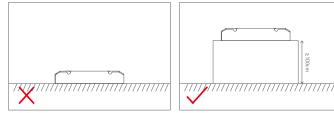
Installation Precautions



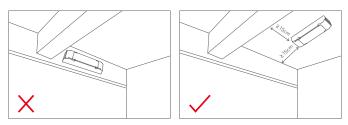
Please do not stack the products. The distance between two products should be >15cm so as not to affect heat dissipation and the lifespan of the products.



Please do not place the products near a large area of metal objects (such as metal stud ceilings). The distance between the product and the metal object should be ≥15cm so as to avoid signal interference.



Please do not place the products on the floor. The distance between the product and the floor should be >100 cm so as to avoid signal interference.



Please do not install the products on beams or near the corners. The distance between the product and the beam or the corner should be ≱15cm so as to avoid signal interference.

3 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 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, fade time, power-on status, 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.

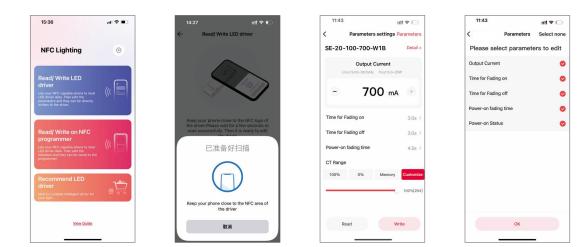


2. Edit the parameters

Click [Parameter settings] to edit the advanced parameters, like output current, time for fading on/off, power-on fading time, power-on status, etc.

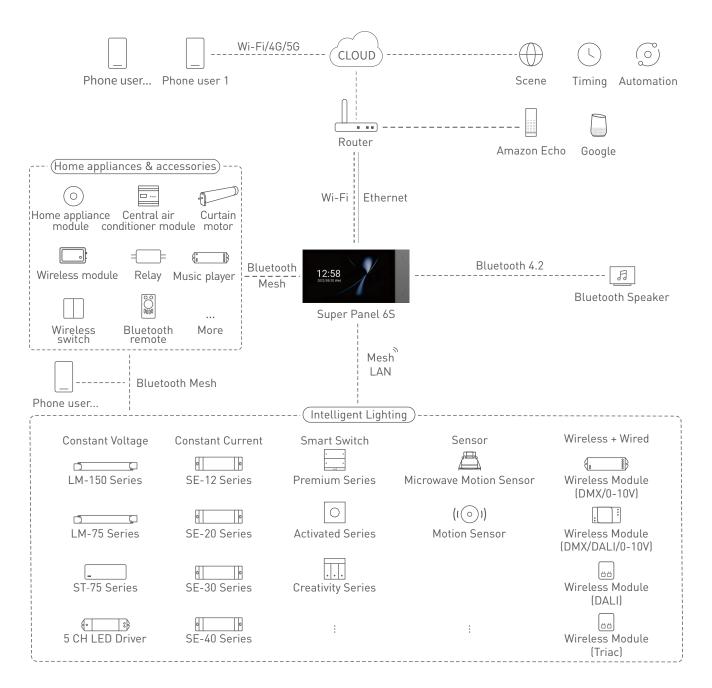
3. Write to the driver

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.

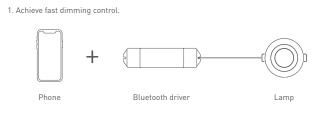




Bluetooth System Diagram



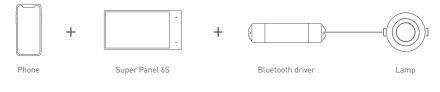
Recommend Applications



2. Both App and remote can control the driver after connecting the remote to the driver with App.



3. Both App and Super Panel 6S can control the driver simultaneously after connecting the Super Panel 6S to the driver with App. By connecting the Super Panel to network, you are allowed to control the driver, cloud scenes and automation remotely with App.



4.More applications of intelligent control are waiting for you to set up.



Use with Bluetooth L-Home APP

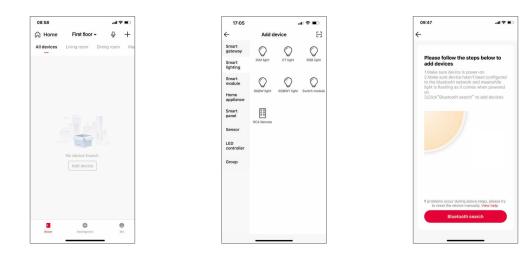
1. Register an account

The App is available on iOS or Android devices. Scan the QR code below with you mobile phone and follow the prompts to complete the App installation. Open the App to log in or register an account.



2. Paring instructions

Open the APP and create a home if you are a new user. Click "+" icon in the upper right corner and access the "Add Device" list, then follow the prompts to add the device. Pick "Smart lighting-DIM light" from the list and follow the prompts to power on the device firstly. Make sure the device is not connected to the network. Then click "Bluetooth Search" and follow the prompts to add the device.



3. Control interface settings

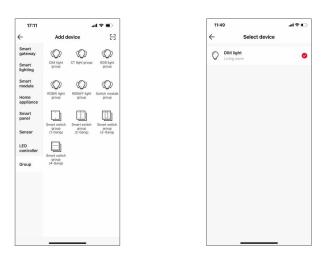
After pairing up your device, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness. Click "Theme" and you'll easily switch to multiple theme lighting effects with one tap. Click "Mode" and the App provides you editable advanced modes. Customize dynamic modes to put you into a more colorful life.





4. Light groups

Users are able to combine the same type of light fixtures into a group to control them simultaneously. Once you create the group, you can set the dim level more easily. Pick "Group-DIM light group" from the list . Follow the prompts to rename the group and click "Next" to pick the lights you are going to group together and click "Save".





5. Advanced functions

This driver can be linked up with gateway function devices (such as LTECH Super Panel) to achieve the advanced functions from cloud scenes to automation.

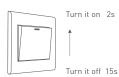


10:52		- 1 🕈 In
÷	New scene	Save
Scene name		Scene1 >
Select icon		<u>ش</u>
Perform acti	ons below when scenes	are triggered
😌 Add act	ion	



Reset The Device (Reset to factory defaults)

Make sure the driver is well-connected to a lamp and the lamp is on, turn it off with the switch and after 15s turn it on. After 2s, turn it off again. Repeat the same operation 6 times. When the lamp flashes 5 times , reset the device to factory defaults successfully.

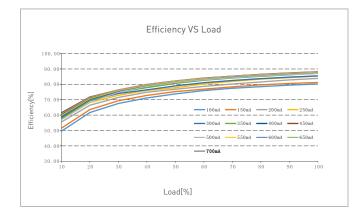


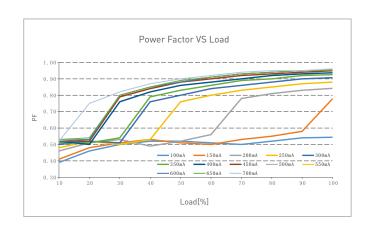
Under the driver being power-on

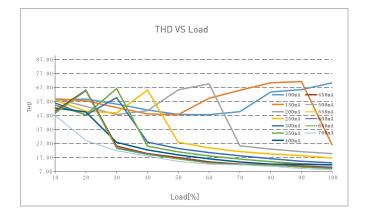
(Repeat 6 times)

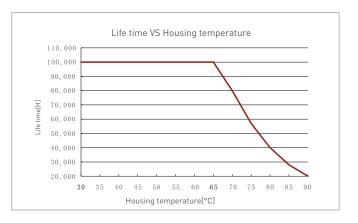


Relationship Diagrams









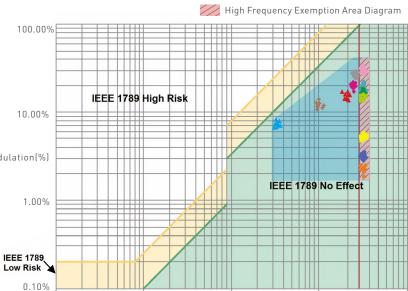
SE-20-100-700-W1B

Flicker Test Sheet

	IEEE 178			
Limit of modulation in	low risk area			
Waveform frequency of optical output	limit (%)			
f ≤ 8Hz	0.2			
8Hz < <i>f</i> ≤ 90Hz	0.025 × f			
90Hz < <i>f</i> ≼ 1250Hz	0.08 × f			
f > 1250Hz	Exemption assessment			
Limit of modulation in no effect area				
<i>f</i> ≼ 10Hz	0.1			
10Hz < f ≤ 90Hz	0.01 × f			
90Hz < <i>f</i> ≼ 3125Hz	(0.08/2.5)× f			
f > 3125Hz	Exemption assessment (High frequency exemption)			

A 0.1% + 1% ▲ ♦ 5% 10% 20%
 ▲ 30% 10.00% 40% ★ 50%
 ♦ 60%
 ▼70% 70% Modulation(%) 80% * 90% • 100% 1.00%

Brightness



100

Frequency(Hz)

1000

3125

10000

10

Modulation Area Diagram

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.

1



Packaging Specifications

Model	SE-20-100-700-W1B
Carton Dimensions	372×355×105mm(L×W×H)
Quantity	32 PCS/Layer; 2 Layers/Carton; 64 PCS/Carton
Weight	0.11 kg/PC; 7.4 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.
- 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 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
AO	20230828	Original version	Yang Weiling