

Intelligent Tunable White LED Driver (Constant Current)

Bluetooth® • The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTRO. • Ultra-small, thin and light screwless end cap. DIM / CT C CB ETP III • Change the output current, fade time and other parameters on the NFC programmer or via the App, and sync the parameters to the driver. T-PWM • 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% Flicker Free The whole dimming process is flicker-free with high frequency exemption level. IEEE 1789 • Comply with the EU's ErP Directive, networked standby<0.5W. Dimmable: 1000000:1 - 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. 414 Jul NFC•)) V • 5-year warranty (Rubycon capacitor)

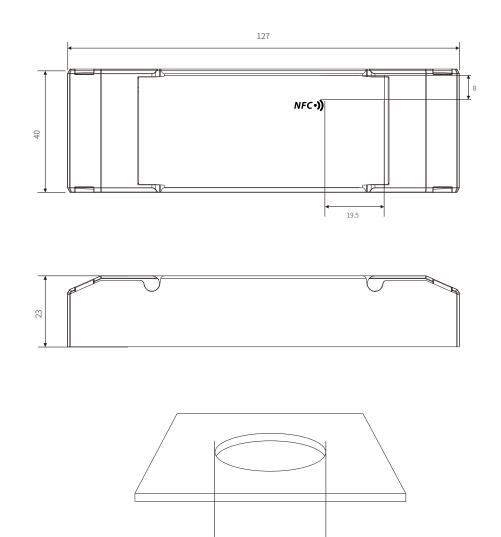
Technical Specs

Output Type Constant current Dimming Interface Bluetooth 5.0 SIG Mesh Dutput Features Didut Feature Insulation Grade IP20 Insulation Grade Class II Suitable for class // II /III light fixtures] Output Valtage 9-42Vdc Maximum output voltage 469Vdc Output Current Range 100-700mA Output Current Range 0-100%, down to 0.0001% LE Current Ringle -34(Maximum current for non dimming state) Current Accuracy ±5% PWM Frequency <3600Hz Co Civitage Range 100-240Vdc AC Voltage Range 100-240Vdc DC current range 0.09-0.25A Input Voltage 115%a/C230Vac Frequency 50/60Hz Input Voltage 115%a/C230Vac Power Factor PF+0.95/115%ac, 40.134/230Vac Power Factor PF+0.95/15%ac, at full load] Invals Current Cold start 154/Test twidth=102us tested under 50% lpeak//230Vac Power Factor PF+0.95/15%ac, at full load] Invals Current Cold start 154/Test twidth=102us	Model		SE-20-1	00-700-W2B				
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SAFETY ENCIMENTARY Use-120 - 50°C to 80°C Working Temperature Working Humidity 40 - 50°C/10 - 55°RH Temperature/Lumitidie 40 - 50°C/10 - 55°RH Temperature/Lumitidie 40 - 50°C/10 - 55°RH Temperature/Lumitidie 40 - 50°C/10 - 55°RH Overload Protection Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover nome load is reduced Overhad Protection Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover normal outp Overhal Protection Short Circul Protection Enter hiccound if the CPIC amportance - 50°C, automatically recover normal outp Overhal Protection Short Circul Protection Enter hiccound if abort circul brotection Short Circul Protection CC Commany ENtri Sicound Circul Protection CC Circul Prote		Anti Surge						
Working Humidity 20 - 95%RH.non-candensing Storage Temperature/Humidy -40.96%C10-95%RH Temperature Coefficient 40.03%/PCI0.59% C1 Temperature Coefficient 40.03%/PCI0.59% C1 Vibration 0.03%/PCI0.59% C1 Overhoad Protection Automatically protects the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced Overhoad Protection Intelligenty adjust or turn of the current output if the PCB temperature + 10°C. When the PCB temperature + 90°C, automatically recover normal output Devovoltage Protection Short Circuit Protection Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically recover normal output in the PCB temperature + 10°C. When the PCB temperature + 90°C, automatically recover normal output in the PCB temperature + 10°C. Short Circuit Protection Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically recover normal output in the PCB temperature + 10°C. Short Circuit Protection Intelligenty adjust of turn of trecur model is field in Circuit Cours, and recover automatically recover automatically recover normal output in the PCB temperature + 10°C. Short Circuit Protection Intelligenty adjust of turn of trecur models. Insulation Resistance I/P - 0/P: 305%V10/S10W D/C2/S*C/70%RH Circuit Circuit Protectint G		Leakage Current	Max. 0.	24mA				
Environment Sorget imperature Coefficient 40.93%/PCI0-95%RH 40.93%/PCI0-95%CH 10+30MH2, 20 12min/1cyte, 72 min for X, Y and Z axes respectively Vibration 0verbat Protection Overbat Protection Overbat Protection Overbat Protection Overbat Protection Short Circuit Protection		Working Temperature	ta: -20 ~ 50°C tc: 80°C					
Temperature Coefficient 40.03%/C[0.507C] Vibration 10-500Hz, 20 12min/1cycle, 72 min tor X, Y and Z axes respectively Overhead Protection Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced Overhead Protection Intelligenty adjust or turn off the current output if the PCB temperature 110°C. When the PCB temperature 40°C, automatically recover normal output overvoltage Protect the automatical protect model is not current output if the PCB temperature 40°C. Submatically protect in diverse intervoltage exceeds the no-load voltage. It can be recovered automatically Short Circuit Protection Enter hiccy model if short circuit accurs, and recover automatically Withstand Voltage (IP-0/P: 100MI/500VD/25°C/70%RH Inculation Resistance (ICC China GB19510.1, GB19510.14 CEC European Union EM1347.1, EM1347.2-13, EM22493 CE CE European Union EM1347.1, EM1347.2-13, EM22493 CE CE European Union EM1347.1, EM1347.2-13, EM22493 CE RCM Australia AS61347.1, K51347.2-13, EM22493 CE CEC European Union EM1347.1, EM1347.2-13, EM2349 CE CEC European Union EM1347.1, EM1347.2-13, EM2349		Working Humidity	20 - 95%RH, non-condensing					
Wind 10-500Hz, 20 12min/1cyCl, 27 min for X Y and Z ares respective/ PROTECTION Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover normal outp 0 werheat Protection Intelligently adjust of the one of the magerature 310°C. When the PCB temperature -30°C, automatically recover normal outp 0 werhout Protection Normalization Intelligently adjust of the one of the more data voltage. It can be recovered automatically 0 werhout Protection Intelligently adjust of the one of the more data voltage. It can be recovered automatically 0 withstand Voltage Withstand Voltage 1/P - O/P : JOMU/501VOC/25°C/70% RH Insulation Resistance 1/P - O/P : JOMU/501VOC/25°C/70% RH 0 Germany E0619510.1, GB19510.14 Safety Standards 1/P - O/P : JOMU/501VOC/25°C/70% RH 1/V Germany E061347.1, EX01347.2-13, EX02393 Safety Standards 1/P - O/P : JOMU/501VOC/25°C/70% RH 1/V Germany E061347.1, EX01347.2-13, EX02393 Safety Standards ECC Clina 6619510.1, GB19510.14 CE European Union EX01347.1, EX01347.2-13 ROM Australia AS 51347.1, EX01347.2-13	ENVIRONMENT	Storage Temperature/Humidity						
Overload Protection Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced Overload Protection Intelligently adjust or turn of the current output if the PCB temperature. 40°C, automatically recover normal output down outgage exceeds the no-load voltage. It can be recovered automatically recover normal output down outgage exceeds the no-load voltage. It can be recovered automatically recover normal output down outgage exceeds the no-load voltage. It can be recovered automatically recover normal output down outgage exceeds the no-load voltage. It can be recovered automatically Short Circuit Protection Enter hiccup model if short circuit occurs, and recover automatically Withstand Voltage (I/P-0/P): 3750Vac Insulation Resistance (I/P-0/P): 100M/0500/DC/25°C/70%RH CC China 0819510.1,0819510.14 CE European Union EN61347-1,1801347-2-13, EN6324-2 Safety Standards CE European Union EN61347-1,1801347-2-13 RCM Australia A561347-1,1801347-2-13 EN6294 ENCE European Union EN61347-1,1801347-2-13 EN6294 ULCA Britain ES EN61347-1, 185184 EN62924 EN6292 ULCA Britain ES EN61347-1, 185187 EN62923 EN62923 <th></th> <td>Temperature Coefficient</td> <td>±0.03%/</td> <td>′°C(0-50°C)</td> <td></td>		Temperature Coefficient	±0.03%/	′°C(0-50°C)				
Protection Intelligently adjust or turn off the current output if the PCB temperature >110°C. When the PCB temperature >40°C, automatically recover normal outp Overvoltage Protection Short Circuit Protection Enter hiccur mode if short Circuit output if the QCB temperature >110°C. When the PCB temperature >40°C, automatically recover normal output Short Circuit Protection Withstand Voltage U/P-O/P: 100V/0700/D25°C/70% RH Insulation Resistance U/P-O/P: 100V/0700/D25°C/70% RH CCC China GB19510.1, GB19510.14 TUV Germany EN61347-1, EN61347-2-13 CBC CDG Interes Tables EC01347-1, EC01347-2-13 CE European Union EN61347-1, EC01347-2-13 EAC Russia EC01347-1, EC01347-2-13 EAC Russia EC01347-1, EC01347-2-13 EAC Russia EC01347-1, EC01347-2-13 EAC Russia EC01347-1, EC01347-2-13 EAC Russia		Vibration						
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Overvoltage Protection Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically Short Circuit Protection Enter hiccur pool of if short circuit occurs, and recover automatically Insulation Resistance 1/P-0/P- 3750Vac Insulation Resistance 1/P-0/P- 100M0/500VDC/25°C/70%RH Vith Stand Voltage CC China GB19510.1, GB19510.14 TUV Germany EN61347-1, EN61347-2-13 EN624394 CE CC China CS147-1, EC61347-2-13 CE CB CS1437-1, EX61347-2-13 EN62347-1, EX61347-2-13 RCM Australia AS 61347-1, IS 61347-2-13, EN62384 EN661347-2-13 RCM Rustralia AS 61347-1, IS EN 61347-2-13, EN62384 EN661 WCKA Britain BS EN 61347-1, IS EN 61347-2-13, EN62384 EN61347-1, IS EN 61347-2-13, EN62384 UKCA Britain BS EN 61347-1, IS EN 61347-2-13, EN 62493 EN 61347-1, IS EN 61347-2-13, EN 62493 GUL Caneda CS CA 22, 2N 0, 2S 13 CUL CUL UKCA Britain BS EN 61347-1, IS EN 61347-2-13, EN 61347 EN 61347-2-13, EN 61347	PROTECTION	Overheat Protection	Intelligently adjust or turn off the current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal output					
Withstand Voltage I/P-0/P:3750Vac Insulation Resistance I/P-0/P:100M0/500VDC/25°C/70%KH Insulation Resistance I/P-0/P:100M0/500VDC/25°C/70%KH CCC China 0B19510.1,0B19510.14 TUV Germany EN61347-1,EN61347-2-13,EN62493 CB European Union EN61347-1,EN61347-2-13 CB European Union EN61347-1,EN61347-2-13 RCM Australia A5 61347-1,EN61347-2-13 RCM Australia A5 61347-1,EN61347-2-13 RCM Australia A5 61347-1,EN61347-2-13 ENCC Europe EN61347-1,EN61347-2-13 ENCC Europe EN61347-1,EN61347-2-13 ENCC Europe EN61347-1,EN61347-2-13 UKCA Britain B1580[PARTY25E0] BIS India IS 15805 [PARTY25E0] BIS India IS 15805 [PARTY25E1] CUL Canada CS AC22, 20, 20, 20, 13 UL America UL 8750 CCC China BST015, EN61000-3-2, EN61000-3-3, EN61547 EMC Emission <t< th=""><th>TROTECTION</th><td>Overvoltage Protection</td><td colspan="4">Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically</td></t<>	TROTECTION	Overvoltage Protection	Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically					
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SAFETY Safety Standards CC		Withstand Voltage						
Safety Standards TUV Germany EN61347-1, EN61347-2-13, EN62493 CB CB Member States IEC61347-2-13, EN62384 CE European Union EN61347-1, EN61347-2-13, EN62384 KC Korea KC01347-1, EC61347-2-13 EAC Russia IEC61347-2-13 ENC Europe EN61347-1, EN61347-2-13 CUC RCM Australia AS 61347-1, EN61347-2-13 EN62347-2-13 ENC Europe EN61347-1, EN61347-2-13 CUC RCM Australia BIS India IS 15885 [PART 2/SEC 13] CUL Canada CSA C22, NO.250, 13 UL America UL 8750 UL America UL 8750 CEC European Union EN55015, EN61000-3-2, EN61507 CEA Russia IEC62493, IEC61547, EH5015 CEM Australia EN55015, EN81000-3-2, EN61000-3-3, EN61547 UKCA Britian BS EN EC55015, EN81000-3-2, EN61000-3-3, BS EN 61567 UKCA Britain BS EN EC55015, EN81000-3-2, EN61000-3-3, BS		Insulation Resistance		2:100MΩ/500VDC/25°C				
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SAFETY Safety Standards EAC Russia IEC61347-2-13 RCM Australia AS 61347-1, AS 61347-2-13 EN62037-2-13 SAFETY ENCC Europe EN61347-1, EN61347-2-13, EN62384 UKCA Britain BS EN 61347-1, BS EN 61347-2-13, BS EN 62493 BIS India IS 15885 (PART 2/SEC 13) CUL Canada CSA C22, 2N, 0.250, 13 UL America UL 8700 VL America UL 8700 CCC China 68/717743, 6817625.1 CE European Union EN55015, EN61000-3-2, EN61000-3-3, EN61547 KC Korea KSC 9815, KSC 9547 EAC Russia IEC62493, IEC61547, EH55015 RCM Australia EN55015, EN61000-3-2, EN61000-3-3, EN61547 UKCA Britain BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 6100-3-3, BS EN 61547 CUL Canada ICES-005 UL America FCC PART 158 EMC Immunity EN6100-4-2,3,4,5,6,8,11, EN+1567 Flicker/Stroboscopic Effet IEEE 1789 Meet IE		Safety Standards						
SAFETY & EMC RCM Australia As 61347-1, AS 61347-2-13 B1 ENCC Europe EN61347-1, EN61347-2-13, EN62384 UKCA BTtain BS En61347-1, BS EN 61347-2-13, BS EN 62493 BIS India IS 15885 IPART 2/SEC 13) CUL Canada CSA C22_2 NO.250.13 UL America UL 8750 UL America UL 8750 CCC China G9/117743, GB17625.1 CE European Union EN50515, EN61000-3-2, EN61000-3-3, EN61547 KC Korea KSC 9815, KSC 9547 EAC Russia IEC62493, IEC61547, EH55015 RCM Australia EN55015, EN61000-3-2, EN61000-3-3, EN61547 UKCA Britain BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61500-3-3, BS EN 61547 UKCA Britain BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 UKCA Britain BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61500-3-3, BS EN 61547 UKCA Britain BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61500-3-3, BS EN 61547 UKCA Britain BS EN IEC 55015, BS EN I								
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FrP No-load power consumption <0.5W (When the lamp is not connected)	ErP		Networked standby		<0.5W (After shutdown by command)			
Flicker/Stroboscopic Effect ClE SVM Pst LM<1.0, SVM<0.4			No-load	power consumption	<0.5W (When the lamp is not connected)			
CIE SVM Pst LM<1.0, SVM<0.4			IEEE 178	39	Meet IEEE 1789 standard/High frequency exemption level			
OTHERS Weight[N.W.] 105g±10g								
UTHERS		DF	Phase factor					
UTHERS	OTHERS	Weight(N.W.)	105g±10	lg				
	UTHERS	Dimensions	127×40×	23mm(L×W×H)				



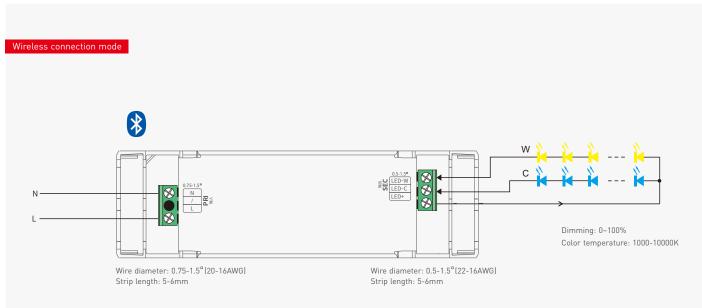
Product Size

Unit: mm



Minimum hole size: φ48mm (1,89")

Wiring Diagram



 $\star\,$ Access the network to control through App and Bluetooth



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	9-42Vd c	9-40Vdc	9-37Vd c	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

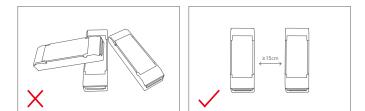


 Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.

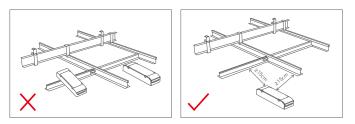


Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

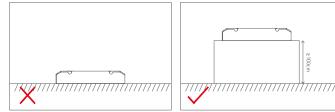
Installation Precautions



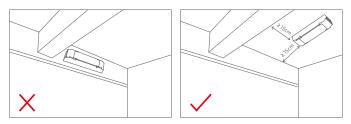
Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



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.

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.

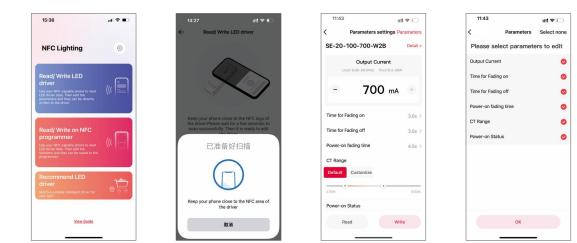


2. Edit the parameters

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

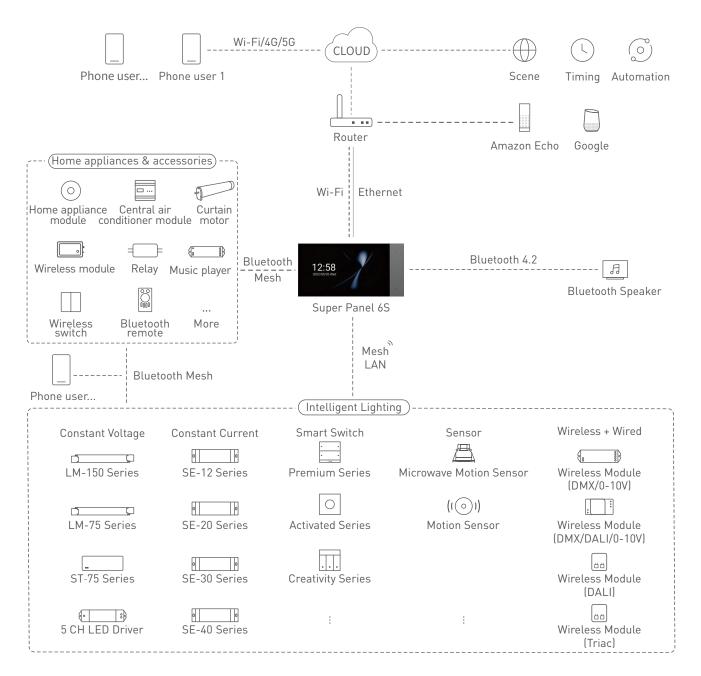
3. Write to the driver

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

Phone



Bluetooth driver

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



Lamp

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

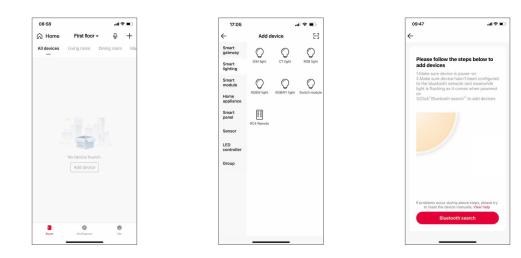
1. Register an account

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.



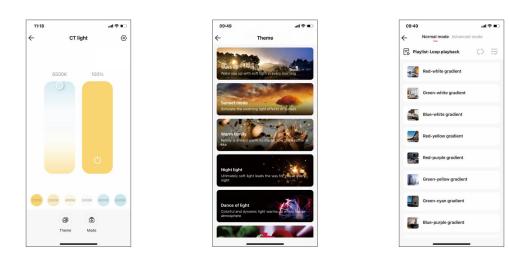
2. Paring instructions

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-CT 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

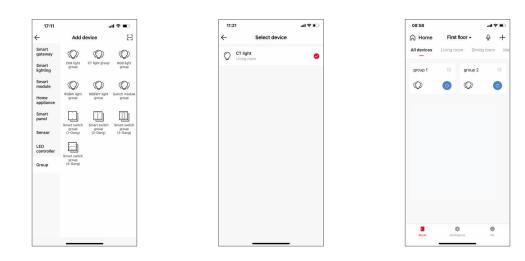
After pairing up your device, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness and color temperature. Click "Theme" and you'll easily switch to multiple theme lighting effects with one tap. Click "Mode" and the App provides you editable advanced 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 and adjust the color temperature more easily. Pick "Group-CT 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.

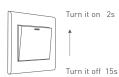


10:52		al 🕈 🕒
÷	New scene	Save
Scene name		Scene1 >
Select icon		
Perform act	ons below when scenes	are triggered
🕄 Add ac	ion	
-		



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.

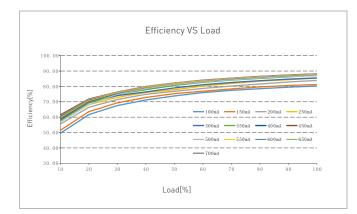


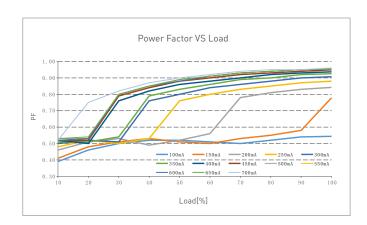
Under the driver being power-on

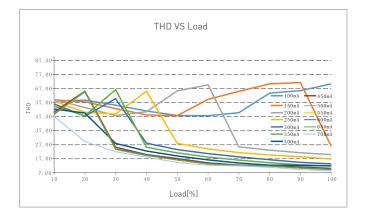
(Repeat 6 times)

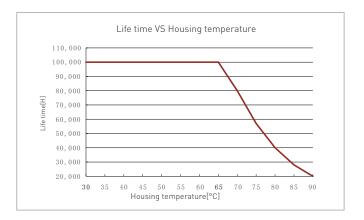


Relationship Diagrams







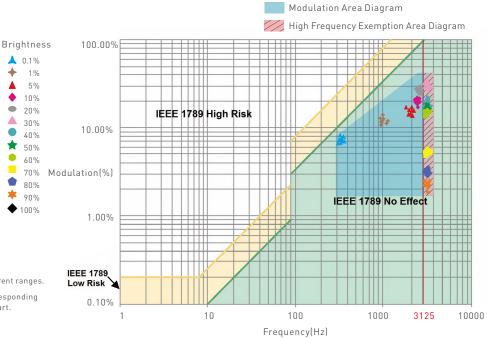


SE-20-100-700-W2B

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Flicker Test Sheet

	IEEE 1789			
Limit of modulation in low risk area				
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				
f ≤ 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)			

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-20-100-700-W2B
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