

Intelligent 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 via the APP.
- Adjustable output current with 1mA step.
- Automatically recognize 0-10V and 1-10V input signal.
 Ultra-low consumption of 0-10V ports < 0.05mA.
- Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWM™ super deep dimming technology, 0.01% dimming depth.
- The whole dimming process is flicker-free with high frequency
- exemption level.
- $\bullet\,$ Comply with the EU's ErP Directive, networked standby<0.5W.
- 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 I / II / III indoor light fixtures.
 Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor).

Technical Specs

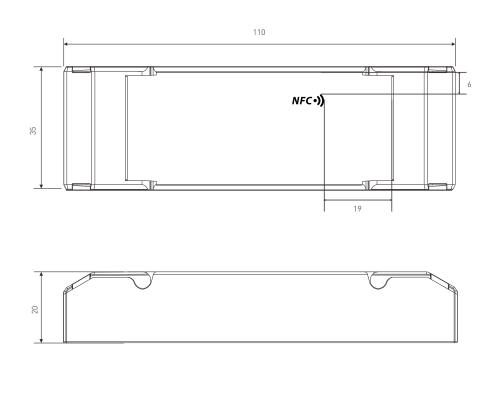
4 in 1 dimming 0-10V 1-10V 10V PWM RX DIM / CT T-PWM Dimming Technology **Flicker Free IEEE 1789** Dimmable: 100000:1 NFC•)) Programmable X AĵA Juc NFC•)) Ò V lulti cu

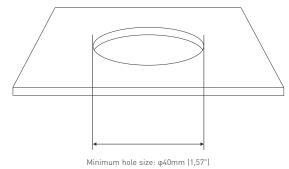
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ErP No-load power consumption <0.5W (When the lamp is not connected)	ErP		Networked standby		<0.5W (After shutdown by command)		
Flicker/Stroboscopic Effect CIE SVM Pst LM≤1.0, SVM≤0.4 DF Phase factor DF≥0.9 Weight[N.W.] 85g±10g			No-load power consumption				
CIE SVM Pst LM<1.0, SVM<0.4			IEEE 1789		Meet IEEE 1789 standard/High frequency exemption level		
OTHERS Weight(N.W.) 85g±10g			CIE SVM		Pst LM≼1.0, SVM≼0.4		
UTHERS		DF	Phase factor		DF≥0.9		
Dimensions 110×35×20mm(L×W×H)	OTHERS	Weight(N.W.)		,			
		Dimensions	110×35×20mm(L×W×H)				



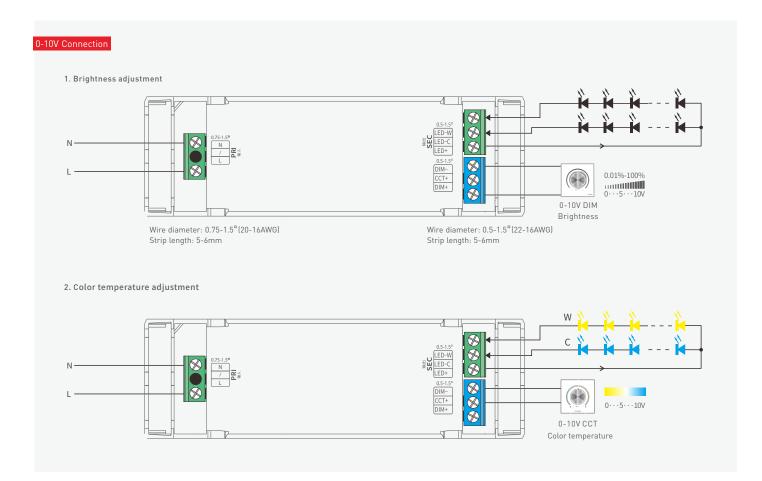
Product Size

Unit: mm





Wiring Diagram





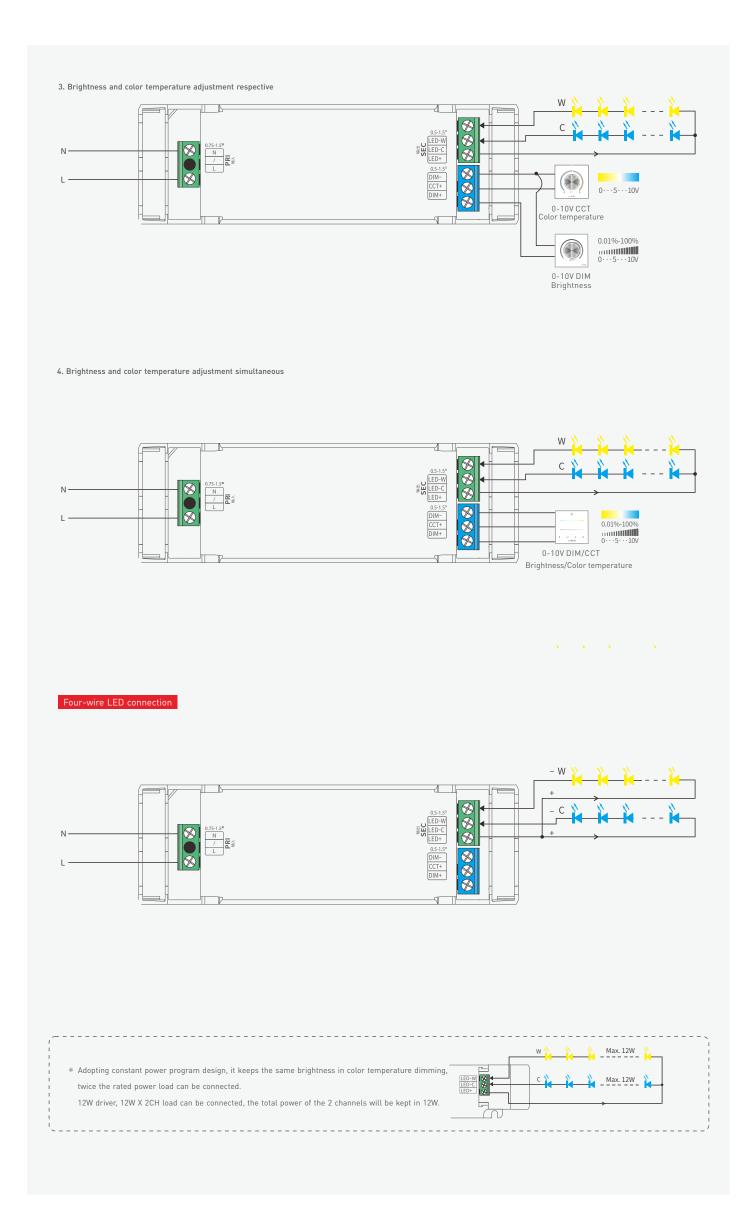




Table of Typical Corresponding Parameters for Current

The typical 9 current data set	typical 9 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 100-500mA adjustable in 1mA step								
Output Current	100mA	150mA	200mA	250mA	300mA				
Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-40Vdc				
Output Power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12W				
Output Current	350mA	400mA	450mA	500mA	/				
Output Voltage	9-34Vdc	9-30Vdc	9-27Vdc	9-24Vdc	/				
Output Power	3.15-11.9W	3.6-12W	4.05-12.15W	4.5-12W	/				

Protective Housing Application Diagram

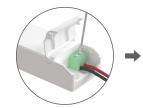


LTECH

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.

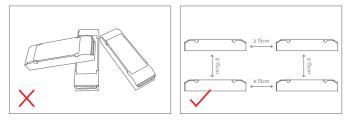


4. Press down the tension plate to fix the the electrical wires.

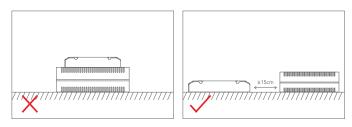


5. Close the protective housing.

Installation Precautions



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

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).



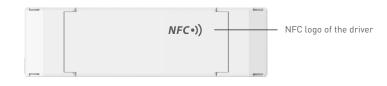
* Before you begin setting the parameters of the driver, please make sure the driver is powered off.

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.

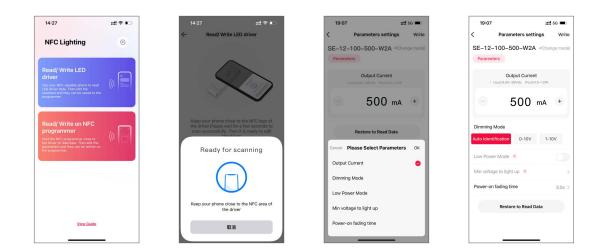


2. Edit the parameters

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

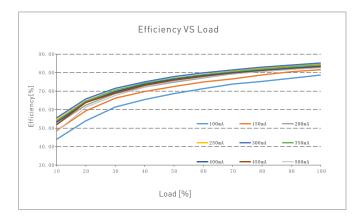
3. Write to the driver

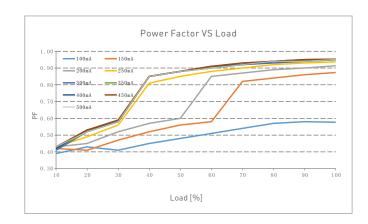
After completing the parameter settings, click [Write] in the upper right corner, and keep the programmer's sensing area close to the NFC logo of the driver, so the parameters can be written to the driver.

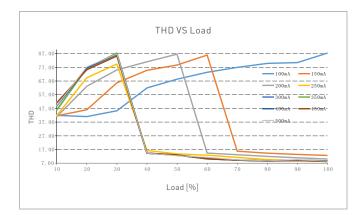


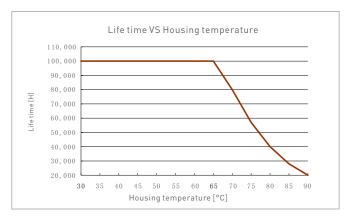


Relationship Diagrams









SE-12-100-500-W2A

Modulation Area Diagram High Frequency Exemption Area Diagram IEEE 1789 Brightness 100.00% 🔺 0.1% Limit of modulation in low risk area + 1% • 5% f ≤ 8H 10% BHz < *f* ≤ 90H: 20% 90Hz < f < 1250Hz 0.08 × f IEEE 1789 High Risk 30% f > 1250Hz Ex ption ass 10 00% 40% Limit of modulation in no effect area **†** 50% • 60% f ≤ 10 70% Modulation(%) 80% 10Hz < f ≤ 90Hz 90Hz < f ≤ 3125Hz [0.08/2.5]× f ¥ 90% IEEE 1789 No Effect f > 3125Hz **•** 100% 1.00% IEEE 1789 Low Risk

0.10%

10

100

Frequency(Hz)

1000

3125

10000

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.

Flicker Test Sheet

6



Packaging Specifications

Model	SE-12-100-500-W2A	
Carton Dimensions	260×240×215mm(L×W×H)	
Quantity	20 PCS/Layer; 5 Layers/Carton; 100 PCS/Carton	
Weight	0.095 kg/PC; 9.5 kg±5%/Carton	

Packaging Image



Inner Packaging Box



Carton Packaging



Transportation and Storage

ITECH

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
- 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

Vei	rsion	Updated Time	Update Content	Updated by
	AO	20230914	Original version	Yang Weiling