

Intelligent LED Driver (Constant Current)

- Housing made from SAMSUNG/COVESTRO's V0 flame retardant PC materials.
- Ultra small, thin and lightweight, screwless end cap.
- The output current, minimum brightness value can be changed through the mobile APP.Current transition time.
- Adjustable output current with 1mA step.
- Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWM super deep dimming technology, 0.1% dimming depth.
- The whole dimming process is flicker-free with high frequency exemption level.
- 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).

DIM

T-PWM

Dimming Technology

Flicker Free

IEEE 1789

Dimmable:

1:1000

NFC

LTSYS

SE-6-100-450-G1T T-PWM

Triac/ELV

CE

CB

EL

RoHS

ErP

CCC

CE

CB

TUV

EL

EAC

EL

SELV

RoHS

ErP

110

The certification icon represents undergoing certification applications only, and final certification qualification subject to actual product.

NFC

Multi current setting

Overheat Protection

Over voltage protection

Over Load protection

Short circuit protection

Technical Specs

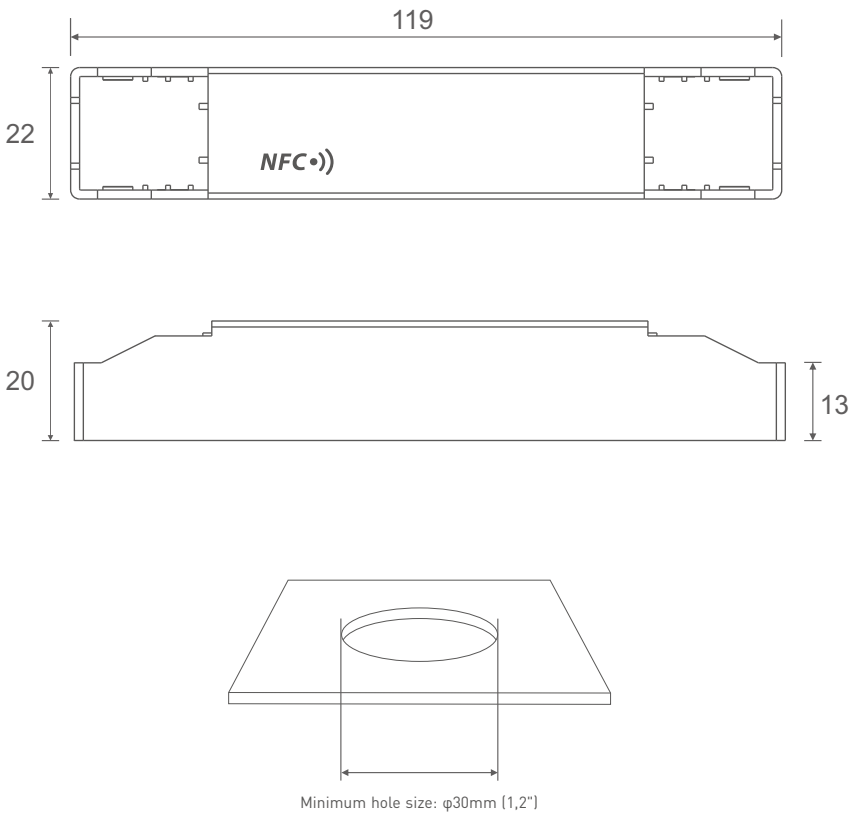
Model		SE-6-100-450-G1T		SE-6-350-700-G1T						
Features	Output Type	Constant current								
	Dimming Interface	Triac/ELV								
	Output Feature	Isolation								
	Protection Grade	IP20								
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)								
OUTPUT	Output Voltage	9-42Vdc		2-18Vdc						
	Maximum output voltage	≤52Vdc		≤30Vdc						
	Output Current Range	100-450mA		350-700mA						
	Output Power Range	0.9W~6.3W		0.7W~6.3W						
	Dimming Range	0~100%, down to 0.1%								
	LF Current Ripple	<3%(Maximum current for non dimming state)								
	Current Accuracy	±5%								
INPUT	PWM Frequency	≤3600Hz								
	DC Voltage Range	220-240Vdc								
	AC Voltage Range	220-240Vac								
	Input Voltage	230Vac								
	Frequency	50/60Hz								
	Input Current	≤0.06A/230Vac								
	Power Factor	PF>0.9/230Vac (at full load)								
	THD	≤15								
	Efficiency (Typ.)	72%								
	Inrush Current	Cold start 10A[Test twidth=300us tested under 50% Ipeak]/230Vac								
ENVIRONMENT	Anti Surge	L-N:1KV								
	Leakage Current	Max.0.5mA								
	Working Temperature	ta:-20~45°C tc:90°C								
	Working Humidity	20 ~ 95%RH, non-condensing								
	Storage Temperature/Humidity	-40~80°C/10~95%RH								
PROTECTION	Temperature Coefficient	±0.03%/°C[-20°C-45°C]								
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively								
	Overload Protection	Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced								
	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								
	Overvoltage Protection	Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically								
SAFETY & EMC	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically								
	Withstand Voltage	I/P-O/P: 3750Vac								
	Insulation Resistance	I/P-O/P: 100MQ/500VDC/25°C/70%RH								
	Safety Standards	CCC	China	GB19510.1, GB19510.14						
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493						
		CB	CB Member States	IEC61347-1, IEC61347-2-13						
		CE	European Union	EN61347-1, EN61347-2-13, EN62384						
		EAC	Russia	IEC61347-1, IEC61347-2-13						
		RCM	Australia	AS 61347-1, AS 61347-2-13						
		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384						
		BIS	India	IS 15885 (PART 2/SEC 13)						
	EMC Emission	CCC	China	GB/T17743, GB17625.1						
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547						
		EAC	Russia	IEC62493, IEC61547, EH55015						
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61547						
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547								
ErP	Power Consumption	Networked standby	Network standby power consumption (when the thyristor signal is 0, the power consumption is 0)							
		No-load power consumption	No-noloadmode							
	Flicker/Stroboscopic Effect	IEEE 1789	Meet IEEE 1789 standard/High frequency exemption level							
OTHERS		CIE SVM	Pst LM≤1.0, SVM≤0.4							
	Weight[N.W.]	50g±5g								
	Dimensions	119×22×20mm(L×W×H)								
	Package size	143×24×22mm(L×W×H)								

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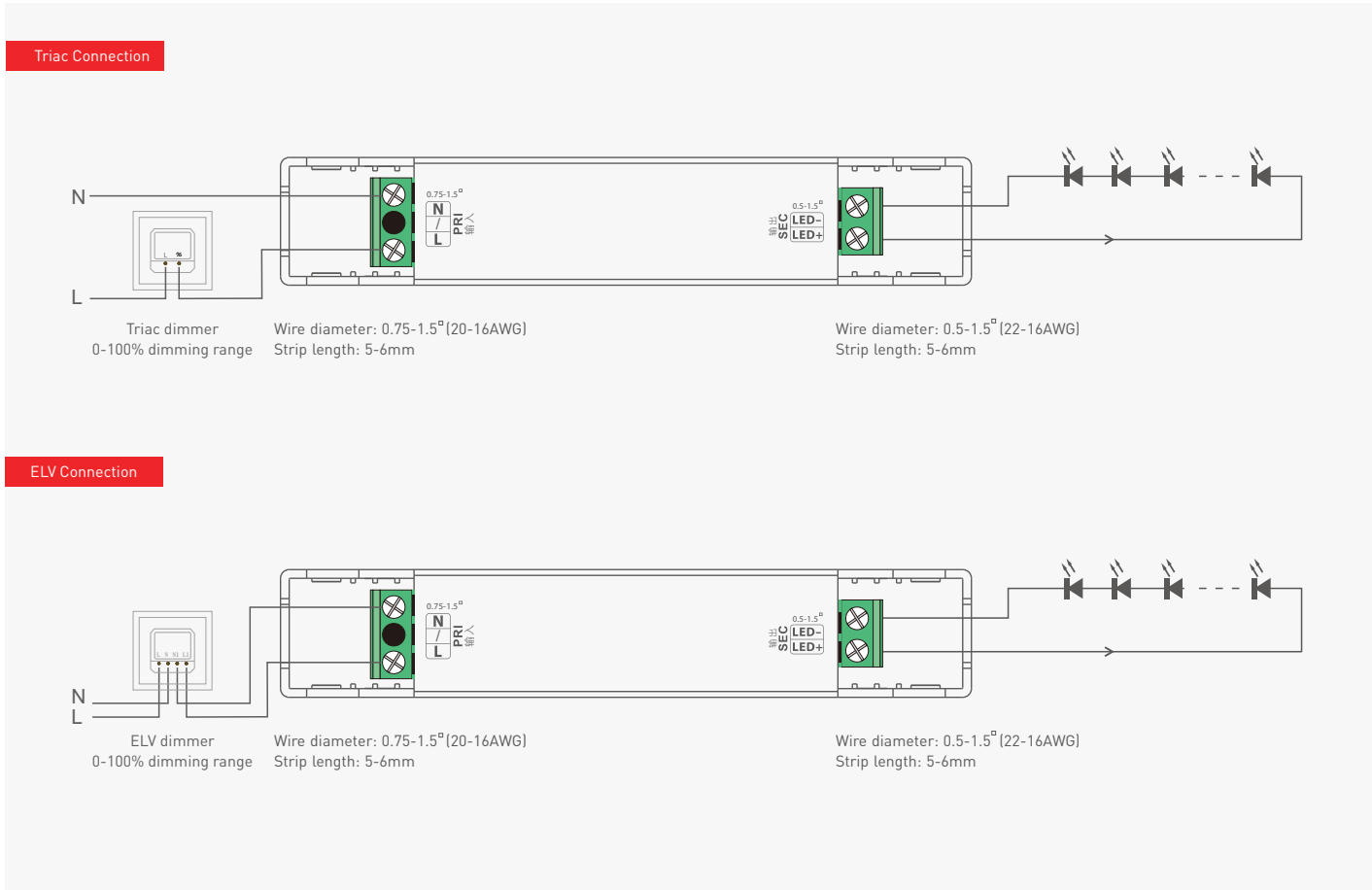
www.ltech.cn

Product Size

Unit: mm



Wiring Diagram

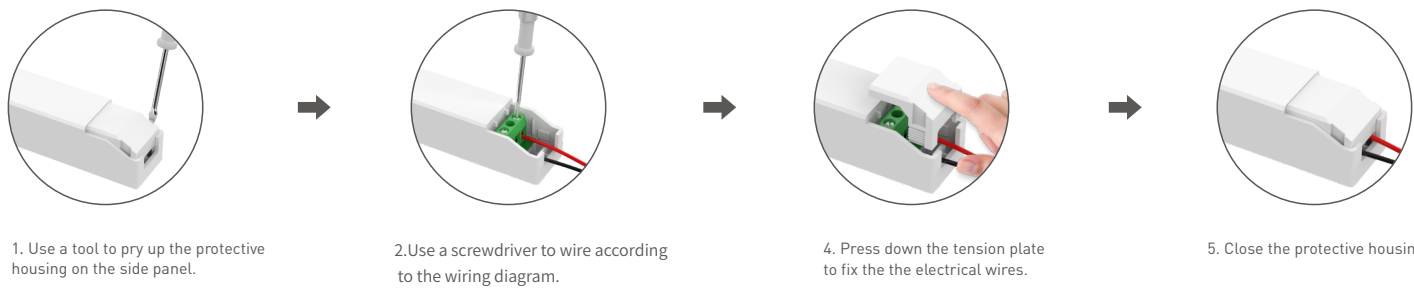


Current and Parameters Sheet

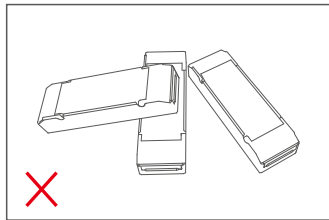
The typical 8 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 100-450mA adjustable in 1mA step									
SE-6-100-450-G1T	Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA	450mA
	Output Voltage	9-42Vdc	9-42Vdc	9-31Vdc	9-25Vdc	9-21Vdc	9-18Vdc	9-15Vdc	9-14Vdc
	Output Power	0.9-4.2W	1.35-6.3W	1.8-6.2W	2.25-6.25W	2.7-6.3W	3.15-6.3W	3.6-6W	4.05-6.3W

The typical 8 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 350-700mA adjustable in 1mA step									
SE-6-350-700-G1T	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
	Output Voltage	2-18Vdc	2-15Vdc	2-14Vdc	2-12Vdc	2-11Vdc	2-10Vdc	2-9Vdc	2-9Vdc
	Output Power	0.7-6.3W	0.8-6W	0.9-6.3W	1-6W	1.1-6.05W	1.2-6W	1.3-5.85W	1.4-6.3W

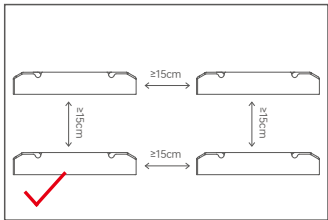
Protective Housing Application Diagram

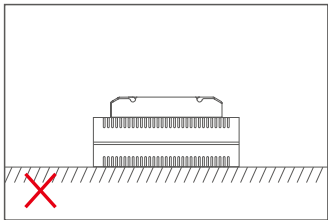


Installation Precautions

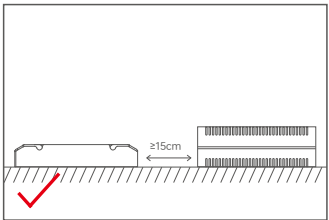


Please do not stack the products. The distance between two products should be $\geq 15\text{cm}$ so as not to affect heat dissipation and the lifespan of the products.

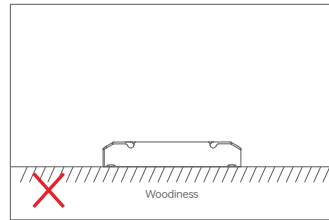




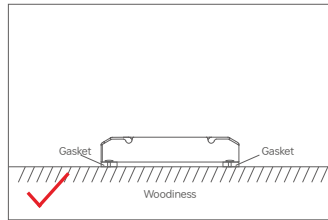
Please not place the products on LED drivers. The distance between the product and the driver should be $\geq 15\text{cm}$ so as not to affect heat dissipation and shorten the lifespan of the products.



Note: The installation should be in line with the environmental operating temperature of the product. Do not install it inside the lamp to avoid exceeding the environmental operating temperature of the product, which may affect the product's lifespan.



Woodiness



Gasket Woodiness Gasket

Do not fix the product screws tightly against the wooden board. Instead, add a washer with a thickness of $\geq 7\text{mm}$ under the fixing screws. Leaving some gaps can effectively dissipate heat, preventing any impact on the product's heat dissipation performance and service life.

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.

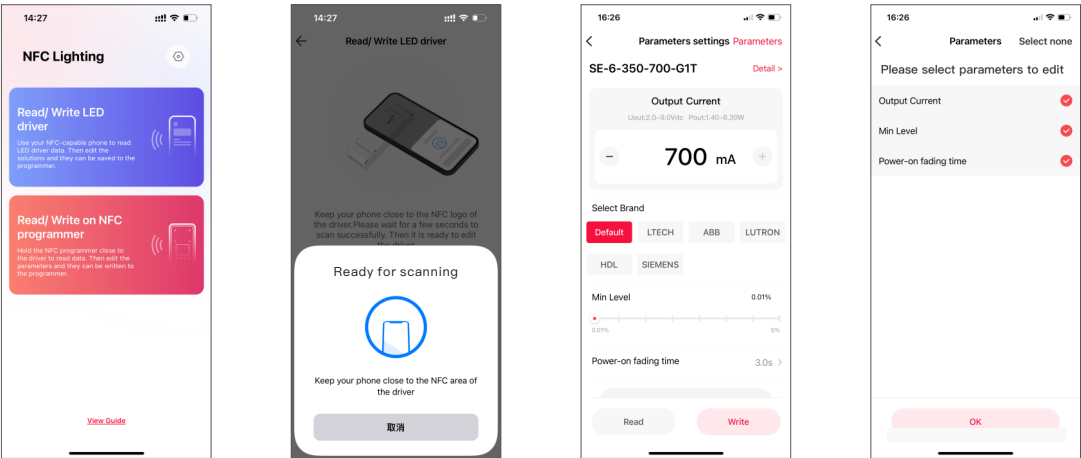


2. Edit the parameters

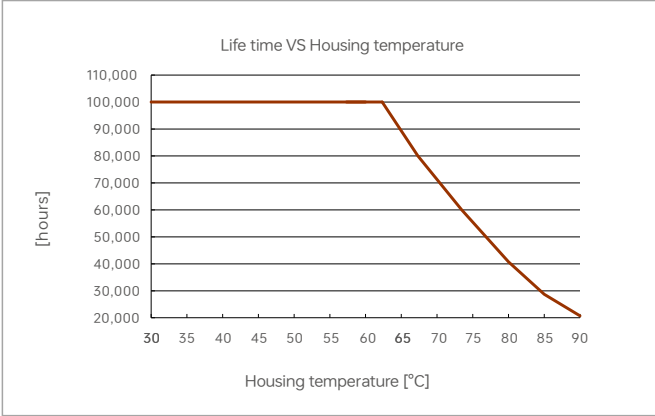
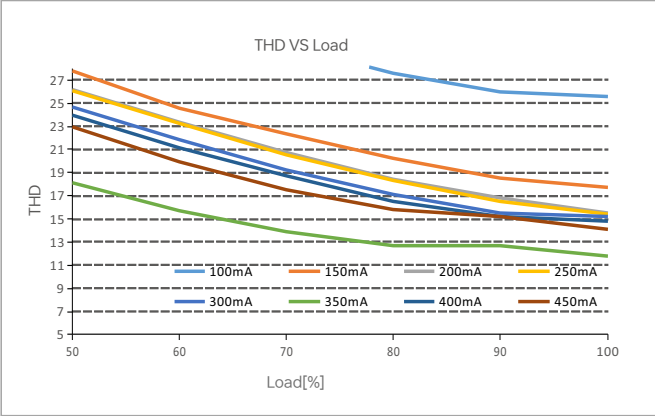
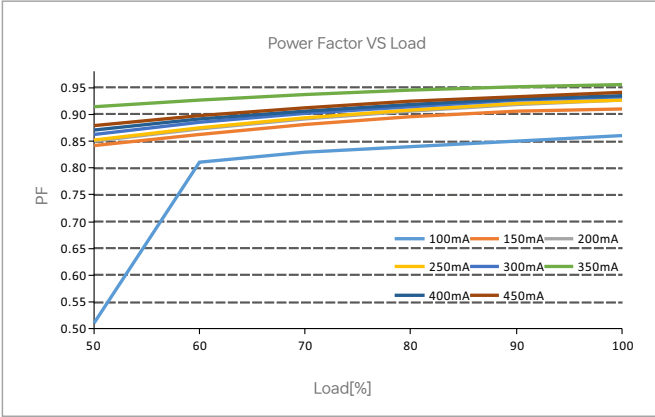
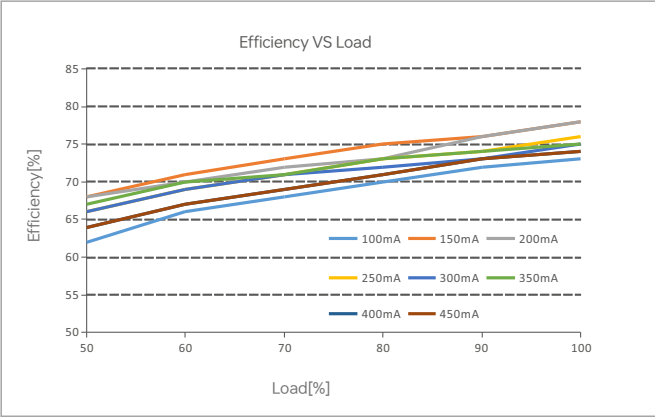
Click [Parameter settings] to edit the output current, minimum brightness value, power transition time and more advanced parameters.

3. Write to the driver

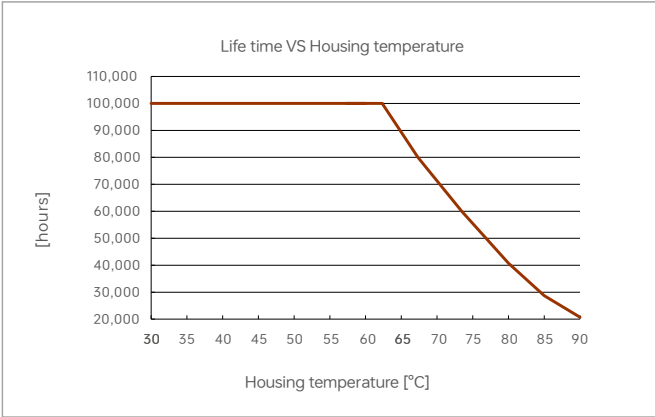
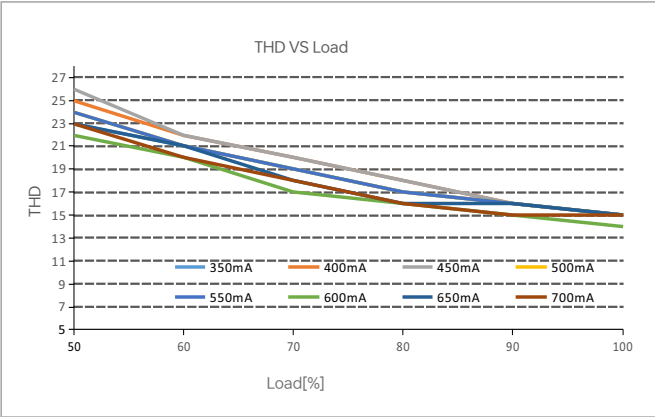
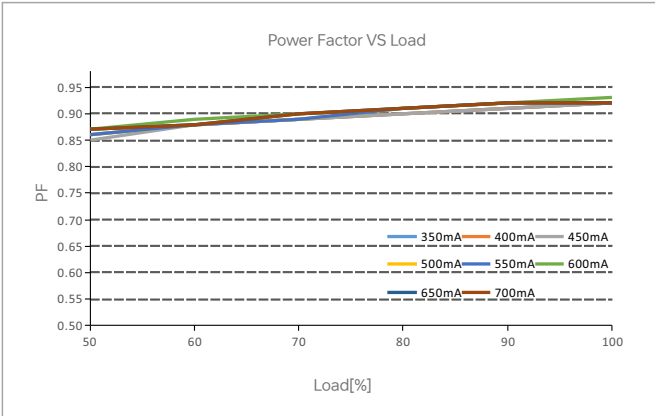
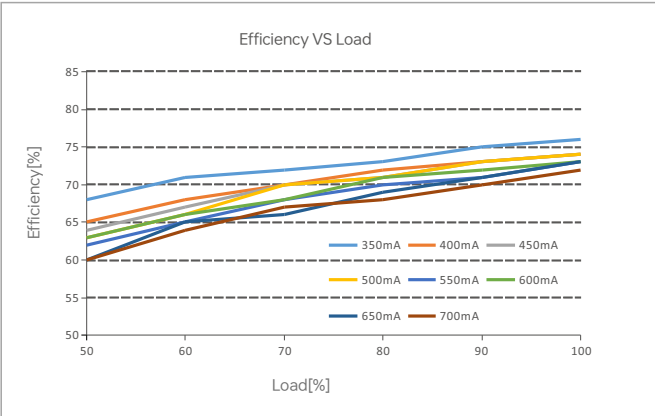
After completing the parameter settings, click [Write] in the upper right corner, and keep the programmer's sensing area close to the NFC logo of the driver, so the parameters can be written to the driver.



Relationship Diagrams

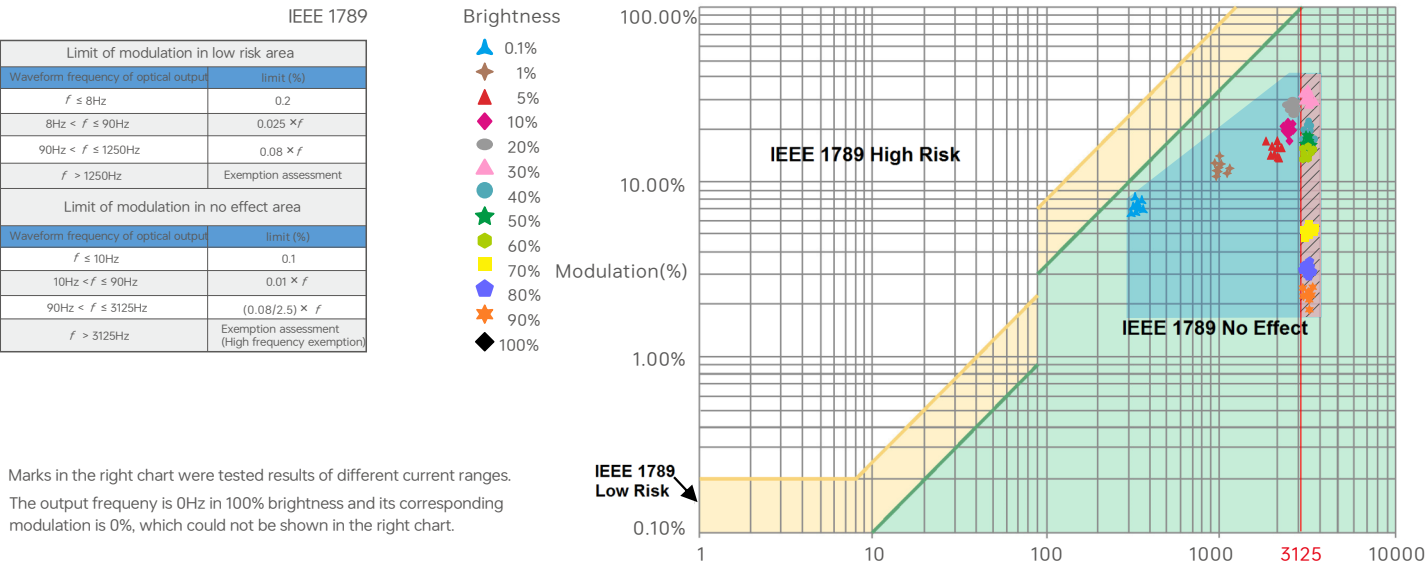


SE-6-100-450-G1T



SE-6-350-700-G1T

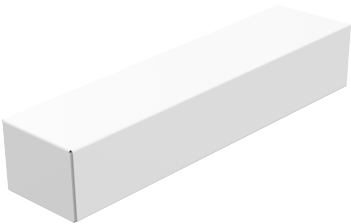
Flicker Test Sheet



Packaging Specifications

Model	SE-6-100-450-G1T/SE-6-350-700-G1T
Packaging size	143×24×22mm(L×W×H)
Carton Dimensions	305×255×140mm(L×W×H)
Quantity	20 PCS/Layer; 5 Layers/Carton; 100 PCS/Carton
Weight	0.05 kg/PC; 5.0 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.
- 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
A0	20240809	Original version	Yang Weiling
A1	2025.11.01	Replace the logo;Update the laser engraving;Update the company address	Haipeng Li
A2	2026.07.10	Add a chart showing the relationship between THD and THD	Haipeng Li