

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, 0.01% 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 | / || / ||| indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor).





Flicker Free





























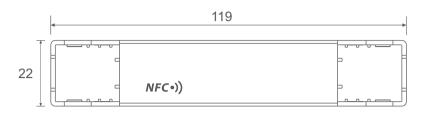
Technical Specs

Part	Model		SE-6-1	00-450-G1T		SE-6-350-700-G1T					
Petiture		Output Type	Consta	nt current							
Protection Parada		Dimming Interface									
Pacification Finded	Features	Output Feature									
Outset Wittings		Protection Grade									
Machinum supplied large \$200-\$600-\$600-\$600-\$600-\$600-\$600-\$600-		Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)								
Output Durine Range 10-450m/s 10-4		Output Voltage									
Dutum Power Range Dutum Power Range		Maximum output voltage	≤52Vd	С		≤30Vdc					
Dimming Range		Output Current Range	100-45	0mA							
	OUTPUT	Output Power Range	0.9W~6	.3W		0.7W~6.3W					
		Dimming Range	0~1009	6, down to 0.01%							
PWM Froquency		LF Current Ripple	<3%(M	aximum current for no	n dimming state)						
No. Voltage Range		Current Accuracy	±5%								
AC Valiage Range 20-240/ac		PWM Frequency	≤3600Hz								
		DC Voltage Range	220-240Vdc								
Froquency 10put Current 400.043/200/c		AC Voltage Range	220-240Vac								
Input Current		Input Voltage									
Power Factor		Frequency	50/60H								
Prove Praction Prove Praction Prove Praction Prove Praction Prove Praction Prove Practic Practic Prove Practic		Input Current									
	INPUT	Power Factor	PF>0.9	/230Vac (at full load)							
Anti Surge		Efficiency (Typ.)									
Leakage Current		Inrush Current	Cold start 10A(Test twidth=300us tested under 50% peak)/230Vac								
Working Temperature		Anti Surge									
Morking Humidity		Leakage Current	Max.0.5	īmA							
Storage Temperature/Humidity 40-890°C/10-95%RH		Working Temperature	ta:-20-45°C tc:90°C								
Temperature Coefficient		Working Humidity	20 ~ 95%RH, non-condensing								
Vibration 10-500Hz, 26 12min/1cycle, 72 min for X, Y and Z axes respectively	ENVIRONMENT	Storage Temperature/Humidity	-40~80°C/10~95%RH								
Overload Protection Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced		Temperature Coefficient									
PROTECTION		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								
Overvoltage Protection Short Circuit Protection Short Circuit Protection Enter hiscue mode if short circuit occurs, and recover automatically	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	- KOILCIION	Overvoltage Protection									
Insulation Resistance		Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically								
CCC China GB19510.1, GB19510.14		Withstand Voltage									
TUV Germany EN61347-1, EN61347-2-13, EN62493		Insulation Resistance									
CB		Safety Standards									
Safety Standards											
Safety Standards											
EAC Russia IEC61347-1, IEC61347-2-13											
RCM											
ENEC Europe EN61347-1, EN61347-2-13, EN62384											
BIS India IS 15885 (PART 2/SEC 13)											
BIS India IS 15885 (PART 2/SEC 13)						·					
CCC China GB/T17743, GB17625.1											
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 61000-3-3, BS EN 61547 EMC Immunity EN61000-4-2,3,4,5,6,8,11, EN61547 Remain Power Consumption Networks 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 T89 Meet IEEE 1789 standard/High frequency exemption level CIE SVM Pst LM≤1.0, SVM≤0.4 Weight(N.W.) 50g±5g	EMC										
EMC Emission KC Korea KSC 9815, KSC 9547		EMC Emission									
EMC Emission											
RCM											
UKCA Britain BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 EMC Immunity EN61000-4-2,3,4,5,6,8,11, EN61547 Power Consumption No-load power consumption No-noloadmode Flicker/Stroboscopic Effect IEEE 1789 Meet IEEE 1789 standard/High frequency exemption level OTHERS UKCA Britain BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 Networks tandby power consumption (when the thyristor signal is 0, the power consumption is 0) No-load power consumption No-noloadmode Meet IEEE 1789 standard/High frequency exemption level CIE SVM Pst LM<1.0, SVM<0.4 Weight(N.W.) 50g±5						·					
EMC Immunity EN61000-4-2,3,4,5,6,8,11, EN61547 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 CIE SVM Pst LM<1.0, SVM<0.4											
Power Consumption Power Consumption Networked standby Network standby power consumption (when the thyristor signal is 0, the power consumption is 0)		FMC Immunity				15, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547					
Flicker/Stroboscopic Effect No-load power consumption No-noloadmode		EMC IIIIIIuiiity									
Flicker/Stroboscopic Effect IEEE 1789 Meet IEEE 1789 standard/High frequency exemption level OTHERS Weight(N.W.) 50g±5g		Power Consumption				7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
Flicker/Stroboscopic Effect	ErP	Flicker/Stroboscopic Effect									
CIE SVM Pst LM<1.0, SVM<0.4 Weight(N.W.) 50g±5g											
OTHERS		· ·	CIE SVM Ps		Pst LM≤1.0, SV	, SVM €0.4					
Dimensions 119×22×20mm(L×W×H)	OTHERS	Weight(N.W.)	50g±5g								
	OTHERS	Dimensions	119×2	2×20 mm(L \times W \times H)							

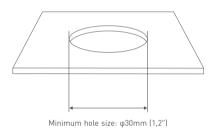


Product Size

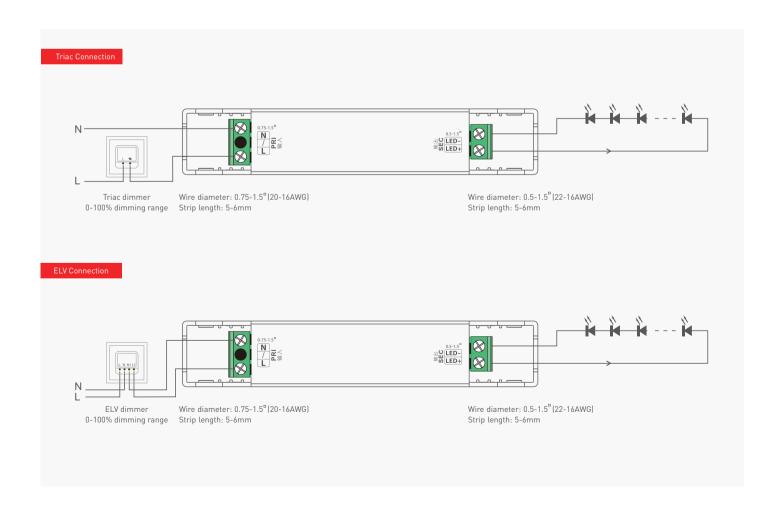
Unit: mm







Wiring Diagram





Current and Parameters Sheet

The typical 8 current date	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								
	Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA	450mA
SE-6-100-450-G1T	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									
	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
SE-6-350-700-G1T	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



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



2.Use a screwdriver to wire according to the wiring diagram.

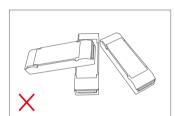


4. Press down the tension plate to fix the the electrical wires



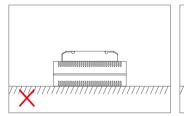
5. Close the protective housing.

Installation Precautions











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 LFD 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.



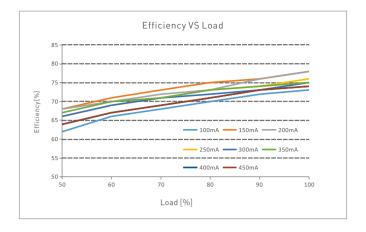




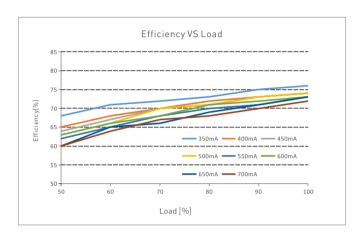




Relationship Diagrams

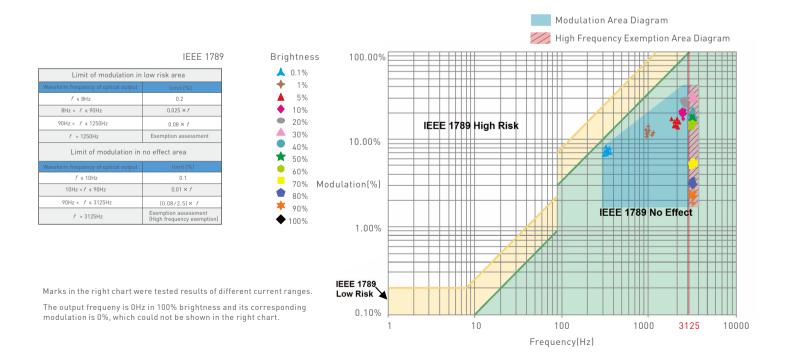


SE-6-100-450-G1T



SE-6-350-700-G1T

Flicker Test Sheet



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Packaging Specifications

Model	SE-6-100-450-G1T/SE-6-350-700-G1T				
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.
- $\bullet \quad \mathsf{Good} \ \mathsf{heat} \ \mathsf{dissipation} \ \mathsf{will} \ \mathsf{extend} \ \mathsf{the} \ \mathsf{life} \ \mathsf{the} \ \mathsf{product}. \ \mathsf{Please} \ \mathsf{install} \ \mathsf{the} \ \mathsf{product} \ \mathsf{in} \ \mathsf{a} \ \mathsf{environment} \ \mathsf{with} \ \mathsf{good} \ \mathsf{ventilation}.$
- 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.
- 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.

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Update Log

Version	Updated Time	Update Content	Updated by
Α0	20240809	Original version	Yang Weiling

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