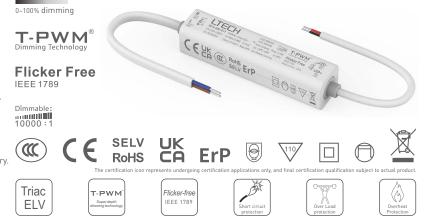


SE-6-100-G1T	SE-6-300-G1T	SE-6-500-G1T	
SE-6-150-G1T	SE-6-350-G1T	SE-6-550-G1T	
SE-6-200-G1T	SE-6-400-G1T	SE-6-600-G1T	Tri
SE-6-250-G1T	SE-6-450-G1T	SE-6-650-G1T	
		SE-6-700-G1T	

## Triac/ELV

# Intelligent LED Driver (Constant Current)

- Small size and light weight. The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTR0.
- Support Leading edge (Triac), Trailing edge (ELV) .
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- T-PWM<sup>TM</sup>dimming technology allows continuous and flicker-free images under high-speed photography.
- The whole dimming process is flicker-free with high frequency exemption level.
- Dimming from 0~100%, down to 0.1%.
- Innovative thermal management technology intelligently protects the life of the LED driver.
- Overheat, over voltage , overload, short circuit protection and automatic recovery.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor).



## **Technical Specs**

Model		SE-6-100-G11	SE-6-1	.50-G1T	SE-6-200-G1T	SE-6-250-G1T	SE-6-300-G1T	SE-6-350-G1T	SE-6-400-G1T		
	Output Type	Constant current									
Features	Dimming Interface	Triac/ELV									
	Output Feature	Isolation									
	Protection Grade	IP20									
	Insulation Grade	Class II (Suitab	le for class I/ II	/III light fixt	ures)						
	Output Voltage	9-42Vdc	9-42Vd	с	9-31.5Vdc	9-25Vdc	9-21Vdc	9-18Vdc	9-15.5Vdc		
	Maximum output voltage	≪50Vdc	≤50Vd	с	≪50Vdc	≪50Vdc	≪50Vdc	≪30Vdc	≪30Vdc		
	Output Current	100mA	150mA		200mA	250mA	300mA	350mA	400mA		
	Output Power	Max.4.2W	Max.6.3	3W	Max.6.3W	Max.6.25W	Max.6.3W	Max.6.3W	Max.6.2W		
OUTPUT	Load Power Range	0.9-4.2W	1.35-6.3	3W	1.8-6.3W	2.25-6.25W	2.7-6.3W	3.15-6.3W	3.6-6.2W		
	Dimming Range	0~100%, down to 0.01%									
	LF Current Ripple	<3%									
	Current Accuracy	±5%									
	PWM Frequency	3600Hz									
	DC Voltage Range	200-280Vdc(Di	mming is not po	ossible)							
	AC Voltage Range	220-220Vac									
	Input Voltage	230Vac									
	Frequency	50/60Hz									
INPUT	Input Current	≤0,08A/230Vac									
	Power Factor	PF<0.5/230Vac[at full load]									
	Efficiency (Typ.)	>70%	>72%								
	Inrush Current	Cold start 15A(Test twidth=300us tested under 50% Ipeak)/230Vac									
	Anti Surge	L-N:1KV									
	Leakage Current	<0.5mA/230Vac									
	Working Temperature	ta:-20°C~45°C	ta:-20°C~45°Ctc:90°C								
	Working Humidity	20 ~ 95%RH, non-condensing									
NVIRONMENT	Storage Temperature/Humidity	y -40~80°C/10~95%RH									
	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 p	protect the device	ce when the	load exceeds 102%-13	5% of the rated power.	Automatically recover o	once load is reduced			
ROTECTION	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									
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically									
	Withstand Voltage	I/P-0/P: 3750Vac									
	Insulation Resistance	I/P-0/P:100MΩ/500VDC/25°C/70%RH									
		CCC Chin	a	GB19510.1,	GB19510.14						
SAFETY	Safety Standards	CE Euro	pean Union	EN61347-1,	, EN61347-2-13, EN62	384					
&		UKCA Brita	in	BS EN 6134	7-1, BS EN 61347-2-	3, BS EN 62493					
EMC		BIS India		IS 15885 (P/	ART 2/SEC 13]						
	EMC Emission	CCC Chin	a	GB/T17743,	, GB17625.1						
		CE Euro	pean Union	EN55015, E	N61000-3-2, EN6100	)-3-3, EN61547					
	EMC Immunity	EN61000-4-2,	EN61000-4-2,3,4,5,6,8,11, EN61547								
	Devene Communities	Standby power consumption Network standby power consumption (when the thyristor signal is 0, the power consumption is 0)									
FD	Power Consumption	No-load power consumption No-no load mode									
ErP		IEEE1789 Meet IEEE 1789 standard/High frequency exemption level									
	Flicker/Stroboscopic Effect	CIE SVM	Pst LM≤1.0, SVM≤0.4								
其他	Weight(N.W.)	50g±5g		T St Elli K	1.0, 57 11 < 0.4						





#### **Technical Specs**

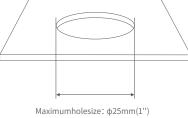
Model		SE-6-45	0-G1T	SE-6-500-G1T	SE-6-550-G1T	SE-6-600-G1T	SE-6-650-G1T	SE-6-700-G1T			
	Output Type		t current		1	1	1	1			
Features	Dimming Interface	Triac/ELV									
	Output Feature	Isolation	1								
	Protection Grade	IP20									
	Insulation Grade	Class II	Suitable for class	I/ II /III light fixture:	s)						
	Output Voltage	9-14Vdc         2-12.5Vdc         2-11.5Vdc         2-10.5Vdc         2-9.5Vdc         2-9Vdc									
	Maximum output voltage	≪30Vdc		≪30Vdc	≤30Vdc	≪30Vdc	≪30Vdc	≪30Vdc			
	Output Current	450mA		500mA	550mA	600mA	650mA	700mA			
	Output Power	Max.6.3\		Max.6.25W	Max.6.3W	Max.6.3W	Max.6.175W	Max.6.3W			
OUTPUT	Load Power Range	4.05-6.3	W	1-6.25W	1.1-6.3W	1.2-6.3W	1.3-6.175W	1.4-6.3W			
	Dimming Range	0~100%, down to 0.01%									
	LF Current Ripple	<3%									
	Current Accuracy	±5%									
	PWM Frequency	1.5% 3600Hz									
	DC Voltage Range			t nossible)							
	AC Voltage Range	200-280Vdc(Dimming is not possible) 220-240Vac									
	Input Voltage	230Vac	100								
	Frequency	230Vac 50/60Hz									
INDUT	Input Current	≤0.08A/									
INPUT	Power Factor			1)							
	Efficiency (Typ.)	PF<0.5/230Vac(at full load) >72%									
	Inrush Current	Cold start 15A(Test twidth=300us tested under 50% Ipeak)/230Vac									
	Anti Surge	L-N:1KV									
	Leakage Current	<									
	Working Temperature	<u.sma z3uvac<br="">ta:-20°C-45°Ctc:90°C</u.sma>									
	Working Humidity	20 ~ 95%RH, non-condensing									
	Storage Temperature/Humidity										
VVIRONMENT	Temperature Coefficient	±0.03%/°C(-20°C-45°C)									
	Vibration	10~500Hz, 26 12min/1cycle, 72 min for X, Y and Z axes respectively									
	Overload Protection										
ROTECTION	Overheat Protection	Automatically protect the device when the load exceeds 102%-135% of the rated power. Automatically recover once load is reduced Intelligently adjust or turn off the current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal output									
	Short Circuit Protection										
		Enter hiccup mode if short circuit occurs, and recover automatically I/P-0/P: 3750Vac									
	Withstand Voltage Insulation Resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH									
	IIISUIALIUII RESISIAIICE	CCC	China	GB19510.1, GB	19510 1/						
	Safety Standards	CE	European Union		61347-2-13, EN62384						
SAFETY		UKCA	Britain		, BS EN 61347-2-13, BS EN	142402					
&		BIS	India	IS 15885 (PART		102473					
EMC		BIS									
	EMC Emission		China	GB/T17743, GB		1/15/7					
	EMO Immunitu	CE         European Union         EN55015, EN61000-3-2, EN61000-3-3, EN61547           EN61000-4-2,3,4,5,6,8,11,         EN61547									
	EMC Immunity							e)			
	Power Consumption	Standby power consumption Network standby power consumption (when the thyristor signal is 0, the power consumption is 0)									
ErP		No-load power consumption No-no load mode									
	Flicker/Stroboscopic Effect	IEEE1789 Meet IEEE 1789 standard/High frequency exemption level									
		CIE SVM Pst LM≤1.0, SVM≤0.4									
其他	Weight(N.W.)	50g±5g									
	Dimensions	84x20x2	0mm(LxWxH)								



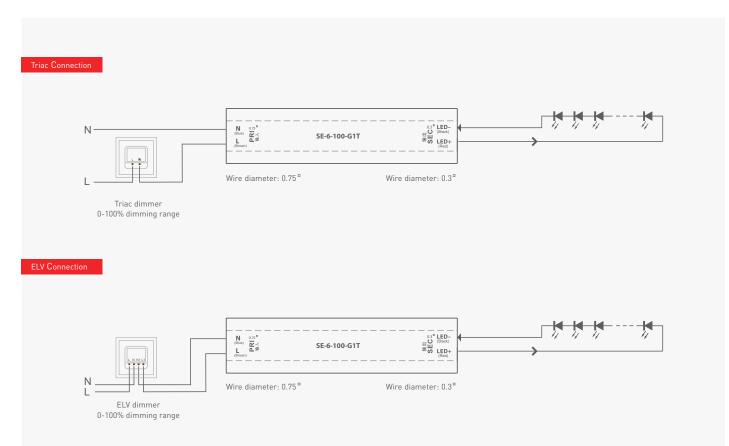


## Product Size





## Wiring Diagram

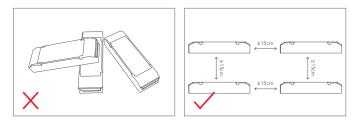




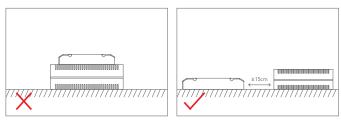
SE-6-100-G1T	SE-6-300-G1T	SE-6-500-G1T	
SE-6-150-G1T	SE-6-350-G1T	SE-6-550-G1T	
SE-6-200-G1T	SE-6-400-G1T	SE-6-600-G1T	Tr
SE-6-250-G1T	SE-6-450-G1T	SE-6-650-G1T	
		SE-6-700-G1T	



#### **Installation Precautions**



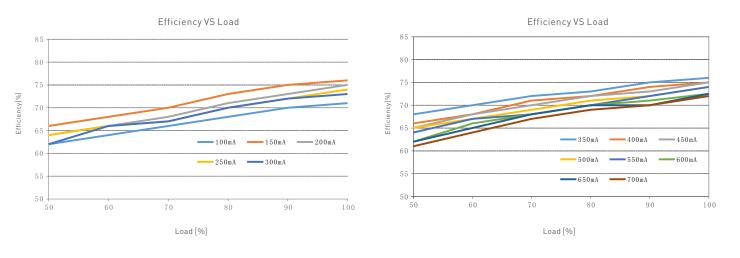
Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



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.

Modulation Area Diagram

## Relationship Diagrams



## Flicker Test Sheet

f ≤ 8H;

8Hz < *f* ≤ 90Hz

90Hz < f < 1250Hz

f > 1250Hz

f ≤ 10Hz

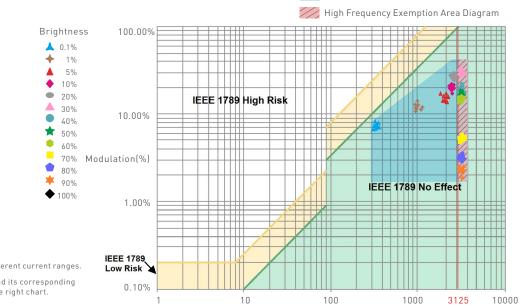
10Hz < f ≤ 90Hz

90Hz < *f* ≤ 3125Hz

f > 3125Hz

Limit of modulation in low risk area

Limit of modulation in no effect area



Frequency(Hz)

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.

**IEEE 1789** 

0.2

0.025 × /

0.08 × f

0.1

[0.08/2.5]× f

Exemption assessme (High frequency exer

Exemption asses





## Packaging Specifications

Model	SE-6-100-G1T/SE-6-150-G1T/SE-6-200-G1T/SE-6-250-G1T/ SE-6-300-G1T/SE-6-350-G1T/SE-6-400-G1T/SE-6-450-G1T/ SE-6-500-G1T/SE-6-550-G1T/SE-6-600-G1T/SE-6-650-G1T/ SE-6-700-G1T
Carton Dimensions	405×245×200mm(L×W×H)
Quantity	30 PCS/Layer; 5 Layers/Carton; 150 PCS/Carton
Weight	0.055kg/PCS; 5.8 kg±5%/Carto

#### 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.



	SE-6-500-G1T	SE-6-300-G1T	SE-6-100-G1T
	SE-6-550-G1T	SE-6-350-G1T	SE-6-150-G1T
Triac/E	SE-6-600-G1T	SE-6-400-G1T	SE-6-200-G1T
	SE-6-650-G1T	SE-6-450-G1T	SE-6-250-G1T
	SE-6-700-G1T		



## Update Log

Version	Updated Time	Update Content	Updated by
AO	20230628	Original version	Yang Weiling