

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, DALI address and other parameters via the APP.
- Set the DALI group and scene in the advanced DALI template via the APP.
- 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
- 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 | / || / ||| indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor).







Dimmable: 10000:1

























Technical Specs

Model		SE-6-1	00-450-G1D		SE-6-350-700-G1D				
	Output Type	Consta	nt current						
	Dimming Interface	DALI-2 DT6							
Features	Output Feature	Isolation							
	Protection Grade	IP20							
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)							
	Output Voltage	9-42Vdc 2-18Vdc							
оитрит	Maximum output voltage	≤50Vdc			≤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 0.01%							
	LF Current Ripple	<3%(M	aximum current for no	n dimming state)					
	Current Accuracy	生5%							
	PWM Frequency	≤3600Hz							
	DC Voltage Range	220-24	220-240Vdc						
	AC Voltage Range	220-240Vac							
	Input Voltage	230Vac							
	Frequency	50/60Hz							
	Input Current	©.1A/230Vac							
INPUT	Power Factor	PF>0.5/230Vac (at full load)							
	Efficiency (Typ.)	75%							
	Inrush Current	Cold start 15A(Test twidth=300us tested under 50% Ipeak)/230Vac							
	Anti Surge	L-N:1KV							
	Leakage Current	Max.0.5mA							
	Working Temperature	ta:-20~	45°C tc:90°C						
	Working Humidity		%RH, non-condensing						
ENVIRONMENT	Storage Temperature/Humidity		°C/10~95%RH						
LINVIKONIMENT	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							
PROTECTION		Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically							
PROTECTION			atically protect the devi						
PROTECTION	Overvoltage Protection Short Circuit Protection	Automa	atically protect the devi	ce when voltage exce	eeds the no-load voltage. It can be recovered automatically				
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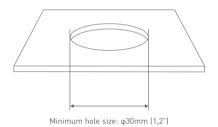


Product Size

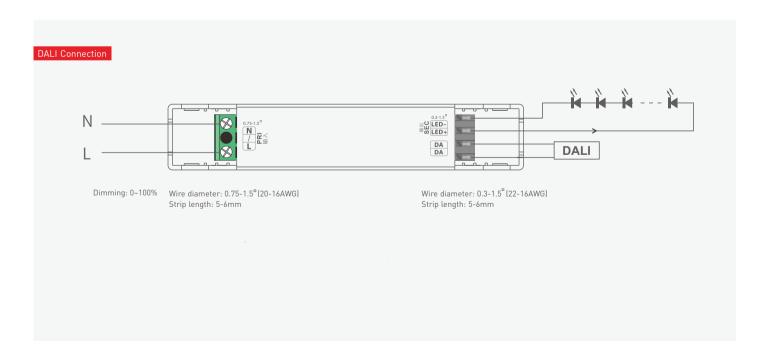
Unit: mm







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							able in 1mA step		
	Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA	450mA
SE-6-100-450-G1D	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							able in 1mA step		
	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
SE-6-350-700-G1D	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







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

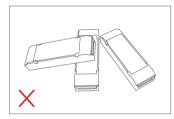


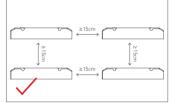
4. Press down the tension plate to fix the the electrical wires

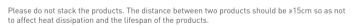


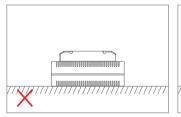
5. Close the protective housing.

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 LED drive

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, DALI address, dimming curve, advanced DALI template, etc.

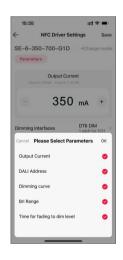
3. Write to the driver

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.









Advanced DALI template

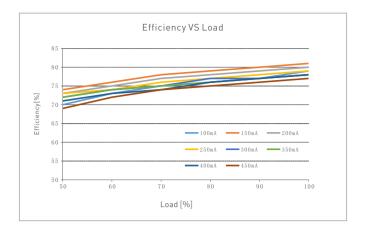
Integrate the functions of the DALI lighting system, edit the DALI group and lighting effects for scenes, then save them in the advanced template to achieve lighting programming. Setup page [for Read/Write LED driver]: Go to App home page — 【③】 icon in the top right — 【DALI template on pnone】.







Relationship Diagrams

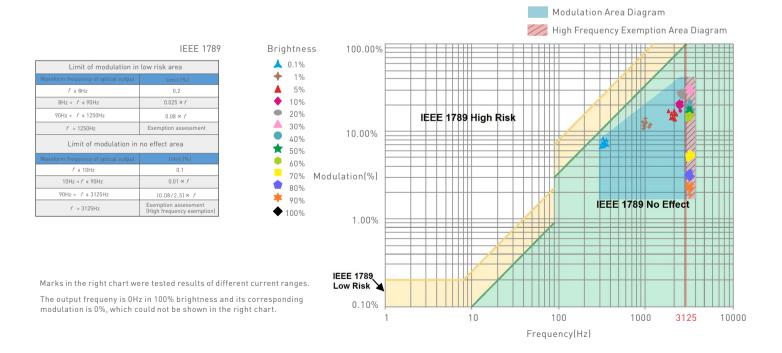


SE-6-100-450-G1D



SE-6-350-700-G1D

Flicker Test Sheet



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Packaging Specifications

Model	SE-6-100-450-G1D/SE-6-350-700-G1D
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.
- $\bullet \quad \text{Any artificial damage caused by high voltage, overload, or improper operations.} \\$
- 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	20230717	Original version	Yang Weiling