

Intelligent Tunable White 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 dimming interface, 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 exemption level.
- 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).







Flicker Free

Dimmable: 10000:1











Class 2 Erp 🗇 🖽 🖾





Technical Specs

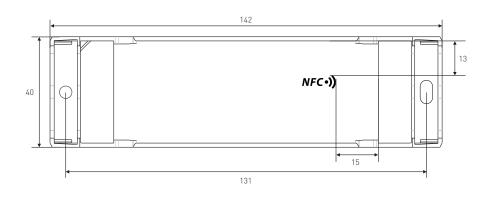
Model		SE-40-3	00-1050-W2D		SE-30-200-800-W2D				
	Output Type	Constan	t current						
	Dimming Interface	DALI-2 Ts/DT8							
Features	Output Feature	Isolation							
	Protection Grade	IP20							
	Insulation Grade	Class II	(Suitable for class I/ II /I	III light fixtures)					
	Output Voltage	9-42Vdc							
OUTPUT	Maximum output voltage								
	Output Current Range	300-1050mA 200-800mA							
	Output Power Range	2.7W-40W 1.8W-30W							
	Dimming Range	2.7/v-40v 1.6vv-30v 1.6vv-30v 1.6vv-30v							
	LF Current Ripple		ximum current for non o	dimming state)					
	Current Accuracy		±5%						
	PWM Frequency								
	DC Voltage Range	≼3600Hz							
	AC Voltage Range	120-250Vdc							
	EoF;	100-240Vac 100%							
			2201/22						
	Input Voltage	115Vac/230Vac							
	Frequency		50/60Hz						
	Input Current		115Vac, <0.22A/230Vac	DE- 0.0C/220\/o.o.(c+ f-:11 11)	≤0.34A/115Vac, ≤0.17A/230Vac				
INPUT	Power Factor			PF>0.9C/230Vac (at full load)					
	THD	THD<10%/230Vac, at full load							
	Efficiency (Typ.)	88% 87%							
	Inrush Current	Cold start 25A(Test twidth=130us tested under 50% lpeak)/230Vac							
	Anti Surge	L-N: 2KV							
	Leakage Current	Max. 0.							
	Working Temperature		- 45°C tc: 90°C						
	Working Humidity	20 ~ 95%RH, non-condensing							
NVIRONMENT	Storage Temperature/Humidity	-40 ~ 80°C/10~95%RH							
	Temperature Coefficient	±0.03%/°C[0-50°C]							
	Vibration			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							
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							
PROTECTION	0 1 0 1 1	Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically							
	Overvoltage Protection	Automa	tically protect the device	e when voltage exceeds the no-load voltage. It c	an be recovered automatically				
	Short Circuit Protection			e when voltage exceeds the no-load voltage. It c uit occurs, and recover automatically	an be recovered automatically				
		Enter hi			an be recovered automatically				
	Short Circuit Protection	Enter hi	ccup mode if short circu	uit occurs, and recover automatically	an be recovered automatically				
	Short Circuit Protection Withstand Voltage	Enter hi	ccup mode if short circu 2: 3750Vac	uit occurs, and recover automatically	an be recovered automatically				
	Short Circuit Protection Withstand Voltage	Enter hi	ccup mode if short circu 2: 3750Vac 2: 100MΩ/500VDC/25°C	uit occurs, and recover automatically	an be recovered automatically				
	Short Circuit Protection Withstand Voltage	Enter hi I/P-0/F I/P-0/F CCC	ccup mode if short circu 2: 3750Vac 2: 100MΩ/500VDC/25°C China	uit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14	an be recovered automatically				
	Short Circuit Protection Withstand Voltage	Enter hi I/P-O/F I/P-O/F CCC TUV	ccup mode if short circu 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany	c/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493	an be recovered automatically				
	Short Circuit Protection Withstand Voltage Insulation Resistance	Enter hi I/P-O/F I/P-O/F CCC TUV CB	ccup mode if short circu 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States	C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13	an be recovered automatically				
	Short Circuit Protection Withstand Voltage	Enter hi I/P-O/F I/P-O/F CCC TUV CB CE	ccup mode if short circu 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union	C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13	an be recovered automatically				
SAFETY	Short Circuit Protection Withstand Voltage Insulation Resistance	Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC	ccup mode if short circu 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea	C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13	an be recovered automatically				
SAFETY &	Short Circuit Protection Withstand Voltage Insulation Resistance	Enter hi I/P-0/F I/P-0/F CCC TUV CB CE KC EAC	ccup mode if short circu 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia	C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13, EN62384 KC61347-1, KC61347-2-13 IEC61347-1, KC61347-2-13	an be recovered automatically				
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&	Short Circuit Protection Withstand Voltage Insulation Resistance	Enter hi I/P-0/F I/P-0/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL	ccup mode if short circular street is short circular street if short circular street is short circular street in short circular street is short circular street in short circular street is short circular street in short circular street in short circular street is short circular street in short c	Lit occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13 EN61347-1, IEC61347-2-13 EN61347-1, KC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 EN61347-1, BS 61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN IS 15885 (PART 2/SEC 13) CSA C22.2 NO.250.13 UL 8750					
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& EMC	Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards EMC Emission EMC Immunity Power Consumption Flicker/Stroboscopic Effect	Enter hi I/P-0/F I/P-0/F I/P-0/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM UKCA CUL UL CCC CE CE CO CE CO CE CO	ccup mode if short circular states and states are state	July occurs, and recover automatically C/70%RH GB19510.1, GB19510.14 EN61347-1, EN61347-2-13, EN62493 IEC61347-1, IEC61347-2-13, EN62384 KC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 AS 61347-1, IEC61347-2-13 EN61347-1, EN61347-2-13 EN61347-1, EN61347-2-13, EN62384 BS EN 61347-1, EN61347-2-13, EN62384 BS EN 61347-1, BS EN 61347-2-13, BS EN IS 15885 [PART 2/SEC 13] CSA C22.2 N0.250.13 UL 8750 GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-2, B ICES-005 FCC PART 15B 61547 <0.5W [After shutdown by command] <0.5W [When the lamp is not connected] Meet IEEE 1789 standard/High frequency ex Pst LM≼1.0, SVM<0.4	62493 62493 161547 161547 S EN 61000-3-3, BS EN 61547				

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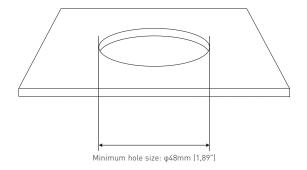


Product Size

Unit: mm







Wiring Diagram

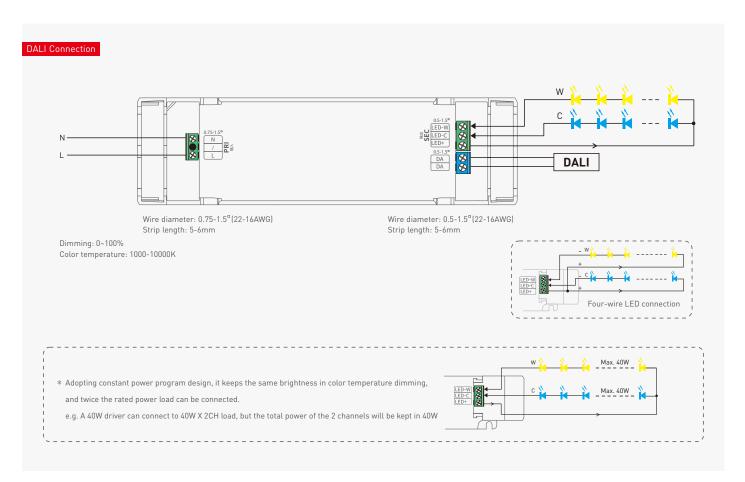




Table of Typical Corresponding Parameters for Current

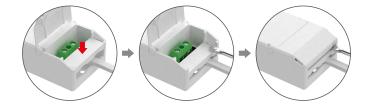
The typical 16 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 300-1050mA adjustable in 1mA step									
	Output Current	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc
	Output Power	2.7-12.6W	3.15-14.7W	3.6-16.8W	4.05-18.9W	4.5-21W	4.95-23.1W	5.4-25.2W	5.85-27.3W
SE-40-300-1050-W2D									
	Output Current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-40Vdc	9-38Vdc
	Output Power	6.3-29.4W	6.75-31.5W	7.2-33.6W	7.65-35.7W	8.1-37.8W	8.54-39.9W	9-40W	9.45-40W

The typical 13 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 200-800mA adjustable in 1mA step									
	Output Current	200mA	250mA	300mA	350mA	400mA	450mA	500mA	550mA
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc
	Output Power	1.8-8.4W	2.25-10.5W	2.7-12.6W	3.15-14.7W	3.6-16.8W	4.05-18.9W	4.5-21W	4.95-23.1W
SE-30-200-800-W2D									
	Output Current	600mA	650mA	700mA	750mA	800mA	/	/	/
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-40Vdc	9-37.5Vdc	/	/	/
	Output Power	5.4-25.2W	5.85-27.3W	6.3-29.4W	6.75-30W	7.2-30W	/	/	/

Application Diagram of Protective Cover

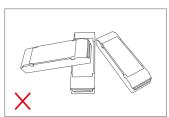


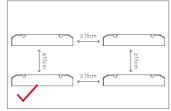
1. Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.



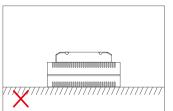
2. Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

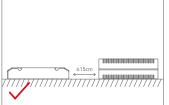
Installation Precautions





Please do not stack the products. The distance between two products should be \geqslant 15cm so as not to affect heat dissipation or the lifetime of the products.





Please not place the products on power supplies. The distance between the product and the power supplies should be \geqslant 15cm so as not to affect heat dissipation or shorten the lifetime 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).



 $\textcolor{red}{\bigstar} \hspace{0.1cm} \textbf{Before you begin setting the parameters of the driver, please make sure \hspace{0.1cm} \textbf{the driver is powered off.}$

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.

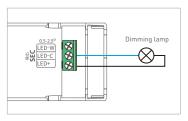
1. Read the LED driver

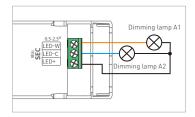
On the APP home page, click [Read/Write LED driver] , then keep the programmer's sensing area close to the NFC logo of the driver to read the driver parameters.

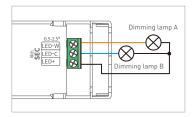


2. Switch the dimming interface

On the page of "Edit parameters", click [Dimming interfaces] to switch to the needed dimming interface: DT8 CT (DT8 1 channel), DT6 CT (DT6 2 channels), DT6 DIM (1 address for 1 channel / 1 address for 2 channels).







1 address for 1 channel

1 address for 2 channels

2 addresses for 2 channels

3. Edit the parameters

Click 【Parameter settings】 to edit the advanced parameters, like output current, DALI address, dimming curve, advanced DALI template, etc.

4. 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

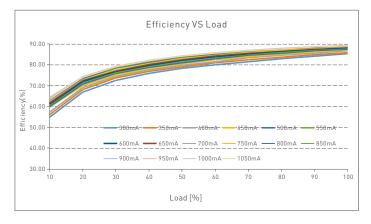
Integrate the functions of the DALI lighting system, edit the DALI group and lighting effects for scenes, then save them in the advanced template to achieve lighting programming. Setup page [for Read/Write LED driver]: Go to App home page — 【 ③ 】 icon in the top right — 【DALI template on pnone】.

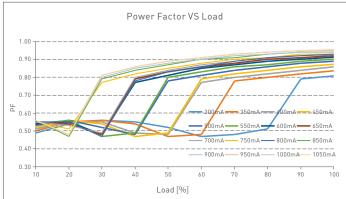


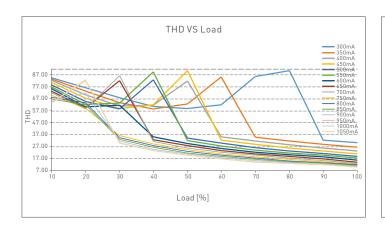


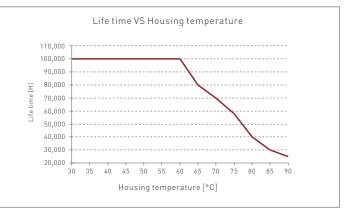


Relationship Diagrams

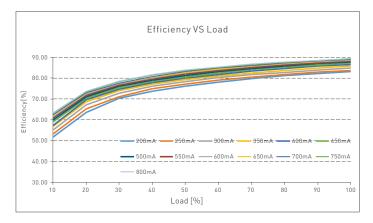


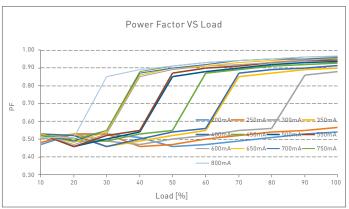


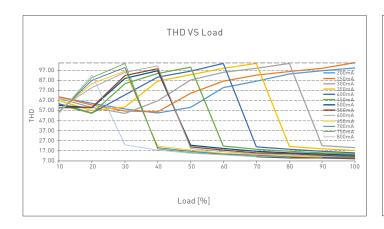


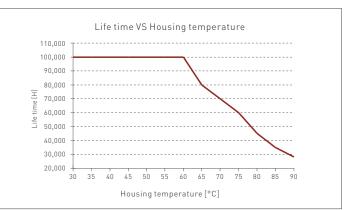


SE-40-300-1050-W2D









 ${\sf Frequency(Hz)}$

SE-30-200-800-W2D

Flicker Test Sheet Modulation Area Diagram High Frequency Exemption Area Diagram IEEE 1789 Brightness 100.00% **A** 0.1% Limit of modulation in low risk area • 5% 8Hz < f ≤ 90Hz 0.025 × f 10% 20% IEEE 1789 High Risk 30% 10.00% Limit of modulation in no effect area **★** 50% 60% • 70% Modulation(%) 80% 90% IEEE 1789 No Effect **1**00% 1.00% IEEE 1789 Marks in the right chart were tested results of different current ranges. Low Risk The output frequeny is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart. 0.10% 10 1000 10000



Packaging Specifications

Model	SE-40-300-1050-W2D	SE-30-200-800-W2D
Carton Dimensions	320×275×106mm(L×W×H)	320×275×106mm(L×W×H)
Quantity	20 PCS/Layer; 2 Layers/Carton; 40 PCS/Carton	20 PCS/Layer; 2 Layers/Carton; 60 PCS/Carton
Weight	0.17 kg/PC; 7.6 kg±5%/Carton	0.15 kg/PC; 6.8 kg±5%/Carton

Packaging Image







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

- Products shall be installed by qualified professionals.
- LTECH products are and not lightning proof 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 protection devices.
- Good heat dissipation will prolong the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.
- * 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.
- $2.\,\mathsf{LTECH}\,\mathsf{has}\,\mathsf{the}\,\mathsf{right}\,\mathsf{to}\,\mathsf{amend}\,\mathsf{or}\,\mathsf{adjust}\,\mathsf{the}\,\mathsf{terms}\,\mathsf{of}\,\mathsf{this}\,\mathsf{warranty,}\,\mathsf{and}\,\mathsf{release}\,\mathsf{in}\,\mathsf{written}\,\mathsf{form}\,\mathsf{shall}\,\mathsf{prevail}.$

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reason able protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

 $NOTE\ 2: Any\ changes\ or\ modifications\ to\ this\ unit\ not\ expressly\ approved\ by\ the\ party\ responsible\ for\ compliance\ could\ void\ the\ user's\ authority\ to\ operate\ the\ equipment.$



Update Log

Version	Updated Time	Update Content	Updated by
Α0	2022.10.09	Original version	Liu Weili
A1	2023.07.28	Remove the description of the NFC programmer	Liu Weili

9