



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).

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Technical	Specs								
Model		SE-40-3	00-1050-W2D		SE-30-200-800-W2D				
	Output Type	Constant current							
	Dimming Interface	DALI-2 T6/DT8							
Features	Output Feature	Isolation							
	Protection Grade	IP20							
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)							
	Output Voltage	9-42Vdc							
	Maximum output voltage	<55Vdc							
	Output Current Range	300-1050mA 200-800mA							
OUTPUT	Output Power Range	2.7W-40			1.8W-30W				
	Dimming Range		, down to 0.01%						
	LF Current Ripple		ximum current for non c	limming state)					
	Current Accuracy	±5%							
	PWM Frequency	≤3600H:							
	DC Voltage Range AC Voltage Range	120-250Vdc							
	EoFi	100-240Vac 100%							
	Input Voltage	100% 115Vac/230Vac							
	Frequency								
	Input Current	50/60Hz ≤0.45A/115Vac, ≤0.22A/230Vac ≤0.34A/115Vac, ≤0.17A/230Vac							
	Power Factor	 <0.434/115vac, <0.224/230vac <0.95/115Vac, <0.174/230vac <0.344/115vac, <0.174/230vac 							
INPUT	THD	THD<10%/230Vac, at full load							
	Efficiency (Typ.)	88%			87%				
	Inrush Current	Cold sta	rt 25A(Test twidth=130u	us tested under 50% Ipeak)/230Vac					
	Anti Surge	L-N: 2K	V						
	Leakage Current	Max. O.	5mA						
	Working Temperature	ta: -20 -	- 45°C tc: 90°C						
	Working Humidity	20 ~ 95	6RH, non-condensing						
ENVIRONMENT	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			when the load exceeds 102% of the rated powe					
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							
	Overvoltage Protection	Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically							
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically							
	Withstand Voltage Insulation Resistance	I/P-0/P: 3750Vac I/P-0/P: 100MΩ/500VDC/25°C/70%RH							
	Insulation Resistance	CCC	China	GB19510.1, GB19510.14					
	Safety Standards	TUV	Germany	EN61347-1, EN61347-2-13, EN62493					
		СВ	CB Member States	IEC61347-1, IEC61347-2-13					
		CE	European Union	EN61347-1, EN61347-2-13, EN62384					
		KC	Korea	KC61347-1, KC61347-2-13					
		EAC	Russia	IEC61347-1, IEC61347-2-13					
SAFETY		RCM	Australia	AS 61347-1, AS 61347-2-13					
&		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384					
EMC		UKCA	Britain	BS EN 61347-1, BS EN 61347-2-13, BS EN 62493					
		BIS	India	IS 15885 (PART 2/SEC 13)					
		CUL	Canada	CSA C22.2 NO.250.13					
		UL	America	UL 8750					
		PSE CCC	Japan	J61347-1, J61347-2-13					
		CE	China	GB/T17743, GB17625.1	1/15/7				
		KC	European Union Korea	EN55015, EN61000-3-2, EN61000-3-3, EN	01347				
		EAC	Russia	KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015					
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN	61567				
		UKCA	Britain	BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547					
		CUL	Canada	ICES-005					
		UL	America	FCC PART 15B					
		PSE	Japan	J55015					
	EMC Immunity		0-4-2,3,4,5,6,8,11, EN						
	Power Consumption	Networked standby <0.5W (After shutdown by command)							
		No-load power consumption <0.5W (When the lamp is not connected)							
ErP		IEEE 1789 Meet IEEE 1789 standard/High frequency exemption level							
		CIE SVM Pst LM<1.0, SVM<0.4							
	DF	Phase factor DF≥0.9							
OTHERS	Weight(N.W.)	170g±10	-		150g±10g				
	Dimensions	142×40×	23mm(L×W×H)						

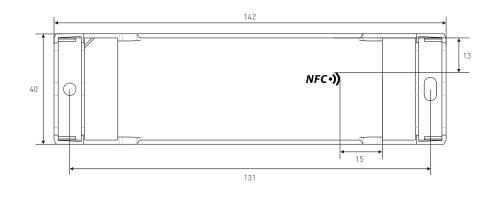
NFC•))



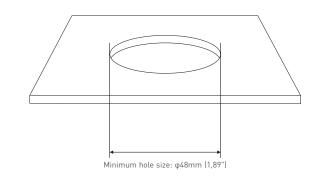


Product Size

Unit: mm







Wiring Diagram

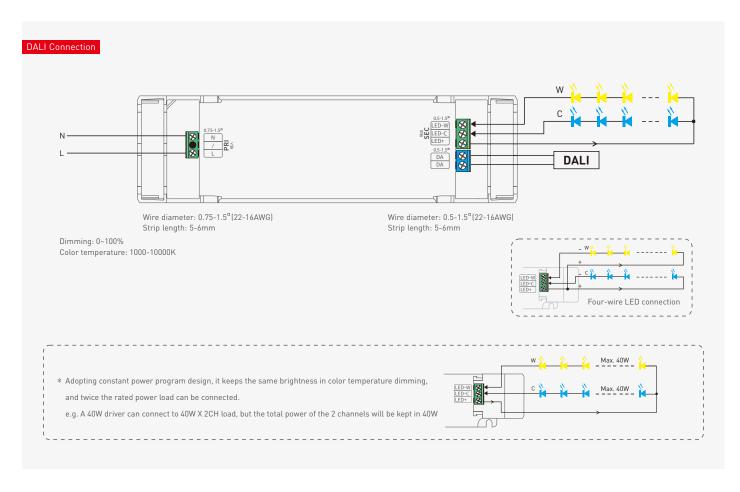






Table of Typical Corresponding Parameters for Current

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	/2D								
	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

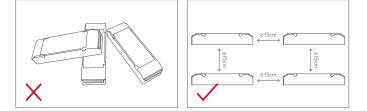


 Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.

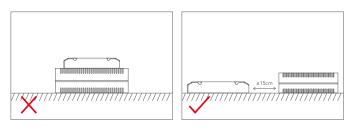


Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

Installation Precautions



Please do not stack the products. The distance between two products should be ≥ 15 cm 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 >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).



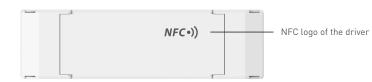
* Before you begin setting the parameters of the driver, please make sure the driver is powered off.

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.

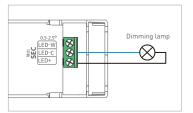
1. Read the LED driver

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.

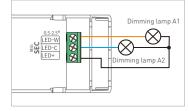


2. Switch the dimming interface

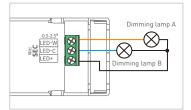
On the page of "Edit parameters", click [Dimming interfaces] to switch to the needed dimming interface: DT8 CT (DT8 1 channel), DT6 CT (DT6 2 channels), DT6 DIM (1 address for 1 channel / 1 address for 2 channels / 2 addresses for 2 channels).



1 address for 1 channel



1 address for 2 channels



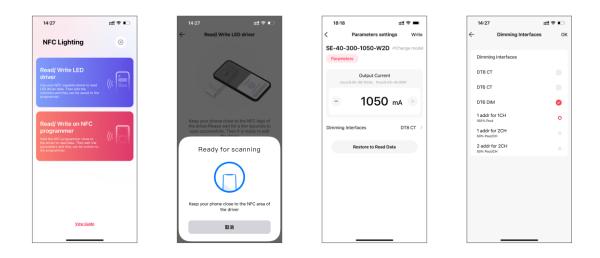
2 addresses for 2 channels

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.

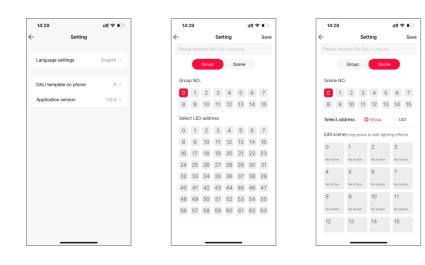




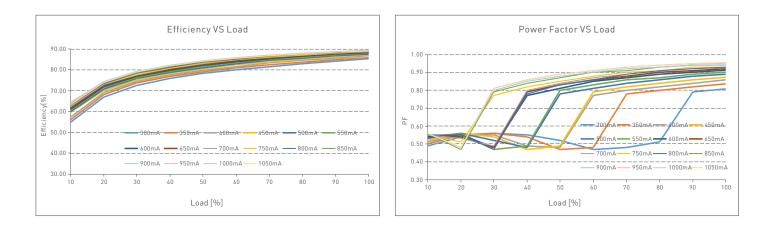


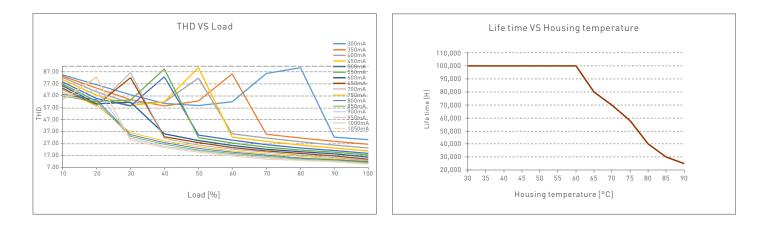
Advanced DALI template

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 - [\odot] icon in the top right - [DALI template on pnone].



Relationship Diagrams



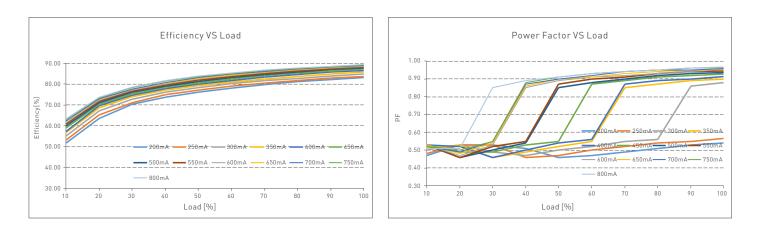


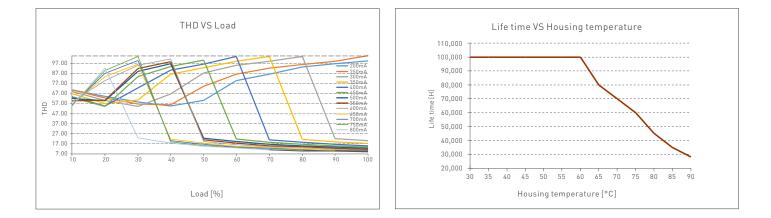
SE-40-300-1050-W2D



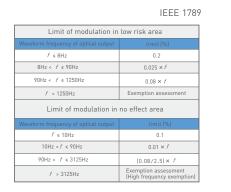
SE-40-300-1050-W2D SE-30-200-800-W2D

DALI-2 DT6/DT8





SE-30-200-800-W2D



Modulation Area Diagram High Frequency Exemption Area Diagram Brightness 100.00% **A** 0.1% 1% 5% 10% 20% IEEE 1789 High Risk 30% 10.00% 40% * 50% 60% 70% Modulation(%) 80% 90% IEEE 1789 No Effect • 100% 1.00% IEEE 1789 Low Risk 0.10% 10 100 1000 3125 10000 1 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.

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Flicker Test Sheet





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; 40 PCS/Carton
Weight	0.17 kg/PC; 7.6 kg±5%/Carton	0.15 kg/PC; 6.8 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

- Products shall be installed by qualified professionals.
- LTECH products are and not lightningproof 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. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall 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
AO	2022.10.09	Original version	Liu Weili
A1	2023.07.28	Remove the description of the NFC programmer	Liu Weili
A2	2024.09.11	P1 Add PSE certification information and update the product silk screen	Yang Weiling