



Intelligent Tunable White LED Driver (Constant Current)

DALL 2

DIM / CT

IEEE 1789

Dimmable

10000 : 1

- 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 on the NFC programmer or via the App, and sync the parameters to the driver.
- Set the DALI group, scene in the advanced DALI template.
- Set the output current down to 1mA.
- DALI bus standard IEC62386-101, 102, 209.
- Class 2 LED driver, Safety Extra Low Voltage (SELV).
- Soft-on and fade-in dimming function enhances your visual comfort. • T-PWM™ dimming technology allows quality and high-end lighting.
- The whole dimming process is flicker-free with high frequency exemption level.
- Comply with the EU's ErP Directive, standby power consumption<0.5W. • Multiple current levels, wide voltage range, suitable for LEDs with different power
- When there is no load, the output will be OV 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.
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor).





Technical Specs

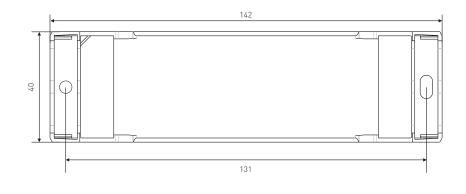
Output Type Constant Current Dimming Interface DALI DT6/DT8 Output Feature Isolation				
Features Output Feature Isolation	DALI DT6/DT8			
	Isolation			
Protection Grade IP20				
Insulation Grade Class II (Suitable for class I/ II /III light fixtures)				
	9-42Vdc			
Maximum output voltage <55V				
Output Current Range 300-1050mA 200-800mA				
Output Power Range 2.7W-40W 1.8W-30W				
OUTPUT Output realize 2.7/V=40W 1.6W=30W Dimming Range 0~100%, down to 0.01% 1.6W=30W 1.6W=30W				
	<3%(Maximum current for non dimming state)			
Current Accuracy ±5%				
	3600Hz			
DC Voltage Range 120-300Vdc				
AC Voltage Range 100-240Vac				
	115Vac/230Vac			
Frequency 50/60Hz				
Input Current <0.45A/115Aac <0.34A/115Aac				
Power Factor PF>0.9/230Vac, at full load				
INPUT THD THD≤10%/230Vac, at full load				
Efficiency (Typ.) 88% 87%				
Inrush Current Cold start 25A(Test twidth=130us tested under 50% Ipeak)/230Vac				
Anti Surge L-N: 2KV				
Leakage Current Max. 0.5mA				
Working Temperature ta: -20 ~ 45°C tc: 90°C				
Working Humidity 20 ~ 95%RH, non-condensing	20 ~ 95%RH, non-condensing			
ENVIRONMENT Storage Temperature/Humidity -40 ~ 80°C/10-95%RH	-40 - 80°C/10-95%RH			
Temperature Coefficient ±0.03%/°C(0-50°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 r	educed			
Overheat Protection Intelligently adjust or turn off the current output if the PCB temperature >110°C. When the PCB temperature <90°C, autor	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 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 I/P-0/P: 3750Vac				
Insulation Resistance I/P-0/P: 100MΩ/500VDC/25°C/70%RH				
CCC China GB19510.1, GB19510.14				
TUV Germany EN61347-2-13, EN62493				
CB CB Member States IEC61347-1, IEC61347-2-13				
CE European Union EN61347-1, EN61347-2-13, EN62384				
KC Korea KC61347-1. KC61347-2-13				
Safety Standards				
EAC Russia IEC61347-1, IEC61347-2-13				
EAC Russia IEC61347-1, IEC61347-2-13				
SAFETY EAC Russia IEC61347-2, IEC61347-2-13 RCM Australia AS 61347-1, AS 61347-2-13				
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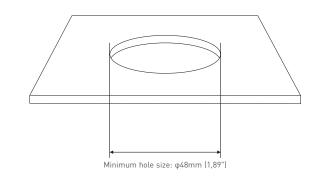


Product Size

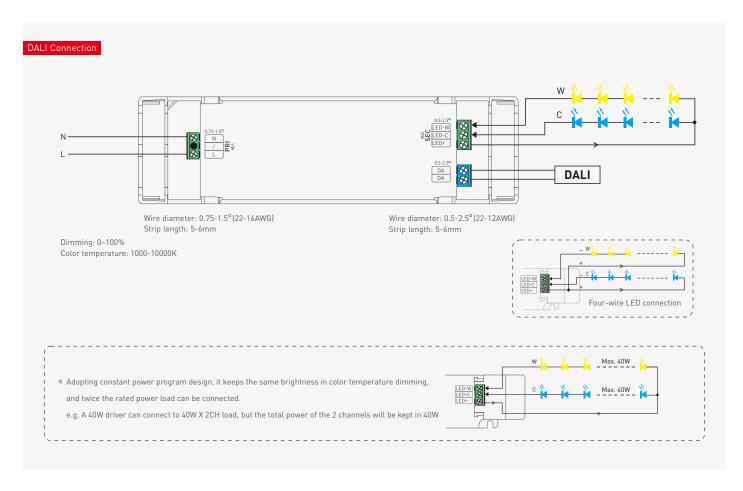
Unit: mm







Wiring Diagram







Current and Parameters Sheet

Set output current on the NFC programmer or via the App				
	Output Current	300-950mA	950-1000mA	1000-1050mA
SE-40-300-1050-W2D	Output Voltage	9-42V	9-40V	9-38V
	Output Power	2.7-40W	8.55-40W	9-40W

Set output current on the NFC programmer or via the App				
	Output Current	200-700mA	700-750mA	750-800mA
SE-30-200-800-W2D	Output Voltage	9-42V	9-40V	9-37V
	Output Power	1.8-30W	6.3-30W	6.75-30W

Protective Housing Application Diagram



housing on the side panel.



2. Pry up the protective housing in the side plate position with a tool. 1. Use a tool to pry up the protective



3. Connect to electrical wires with a screwdriver as wiring diagram shows.

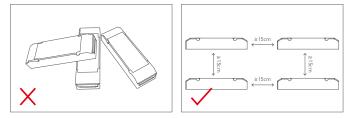


4. Press down the tension plate to fix the the electrical wires.



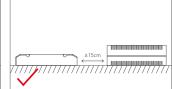
5. Close the protective housing.

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.

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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.

Note: This product is a tunable white driver and cannot be connected to a DIM light. Misconnection will cause damage and easily trigger accidents.

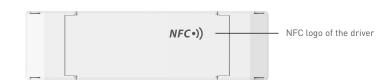




Work with a NFC programmer (LT-NFC)

Change the output current, DALI address and other parameters on the NFC programmer. After modification, batch parameters can be be written to the driver.

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



1. Read the LED driver

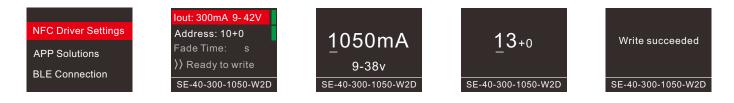
Power the programmer by using the USB cable, then select "NFC Driver Settings" and press "OK" button. Next, keep the programmer's sensing area close to the NFC logo of the driver to read the driver parameters.

2. Change the driver parameters (Output current/address)

On the home page of the programmer, press " $\downarrow \downarrow$ " button to select the parameters you want to change and press the "OK" button to edit them. Then, press " $\downarrow \downarrow$ " button to adjust the parameter values and press " $\downarrow \downarrow$ " to select the next needed value. After the parameter values are modified, save them by pressing the "OK" button. Note: [1] If the current value you set is out of range, The programmer will report an error; [2] The DALI address range :0-63.

3. Write to the driver

On the home page of the programmer, press the " $\bullet \bullet$ " button to select [>Ready to Write], then press the "OK" button. After the screen displays "Ready to write...", please keep the programmer's sensing area close to the NFC logo of the driver. When the screen displays "Write succeeded", it means the parameters have been successfully changed.



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 on the NFC programmer or via the APP, please make sure the driver is powered off.

Read/Write the LED driver

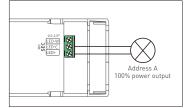
Use your NFC-capable phone to read the driver parameters, then set the output current, address, other parameters, or set the advanced DALL template depending your needs. Save your settings and hold your phone close to the driver again, so the parameters can be easily written to the driver.

1. Read the LED driver

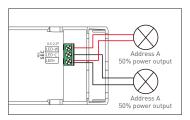
On the APP home page, click [Read/Write LED driver], then keep the programmer's sensing area close to the NFC logo of the driver to read the driver parameters.

2. Switch the dimming interface

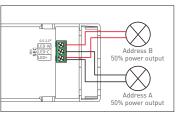
On the page of "Edit parameters", click [Dimming interfaces] to switch to the needed dimming interface: DT8 CT (DT8 1 channel), DT6 CT (DT6 2 channels), DT6 DIM (1 address for 1 channel / 1 address for 2 channels).



DT6 DIM (1 addresses for 1 channels)



DT6 DIM (1 addresses for 2 channels)



DT6 DIM (2 addresses for 2 channels)



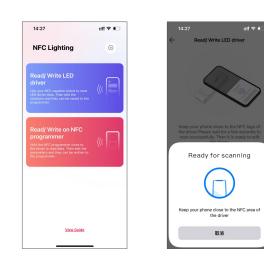


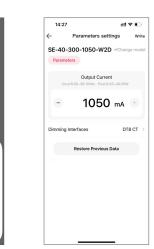
3. Edit the parameters

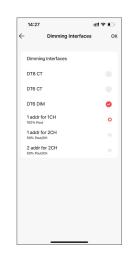
Click [Parameter settings] to edit the advanced parameters, like output current, DALI address, dimming curve, advanced DALI template, etc.

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.







Write/Read on the NFC programmer

Connect the NFC programmer to your phone and read the driver parameters with your phone. After editing the solution in the mobile App, you can sync it to the NFC programmer and write advanced parameters to mass LED drivers.

1. Connect to the NFC programmer

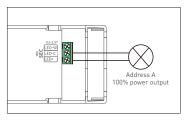
Enable Bluetooth on your phone and power the NFC programmer first. Then press the button on the programmer to switch to "BLE Connection" and press "OK" button to wait for Bluetooth connection. On the APP home page, click [Write/Read on NFC programmer] - [Next] to search for the programmer and connect to it.

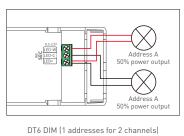
2. Read the LED driver

On the "Programmer information" page, choose any solution for editing. Then keep the programmer's sensing area close to the NFC logo of the driver, to read the driver parameters.

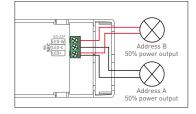
3. Switch the dimming interface

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 address for 2 channels).





DT6 DIM (1 addresses for 1 channels)



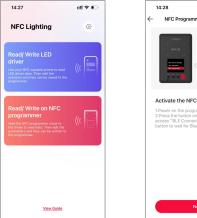
DT6 DIM (2 addresses for 2 channels)

4. Edit the parameters

Click [Parameter settings] to edit the advanced parameters, like output current, DALI address, dimming curve, advanced DALI template, etc. Then click [Save] in the top right.

5. Write to the LED driver

When the programmer screen shows "Sync ... succeeded", click "BACK" button to return to the home page and switch to the "APP Solutions", then press the "OK" button to access the optional solutions. Select the corresponding solution by pressing the " +> " button, then keep the programmer's sensing area close to the NFC logo of the driver. After this, the advanced solution can be written to a large number of the same model drivers.





14:28		::!! 🗢 🗈
← NFC Programme	er_dc0d30I	0454f
SOLUTION SETTINGS		
SOL1		>
SOL2		>
SOL3		>
SOL4		null >
SOL5		null >
OTHER SETTINGS		
Name NFC Program	nmer_dc0d3	0b04 >
MAC	dc0d30	50454f >
Firmware upgrade	SVer000.0	00.001 >
DALI template on pr	rogrammer	0 >
Disc	onnect	





Sync SOL2 succeeded





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

DALI DT6/DT8

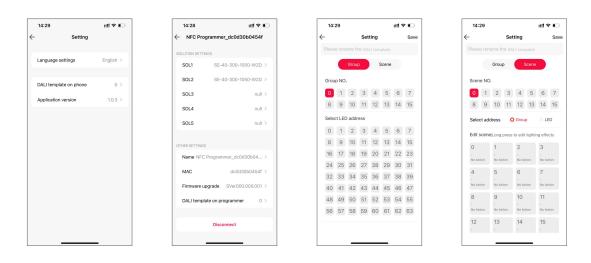
Write succeeded

SE-40-300-1050-W2D

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 1 (for Read/Write LED driver) : Go to App home page - [③] icon in the top right - [DALI template on pnone].

Setup page 2 [for Read/Write on NFC programmer]: Go to App home page - [Read/Write on NFC programmer] - [DALI template on programmer].



For more advanced solution settings, please scan the QR code below and check out the NFC programmer manual (model: LT - NFC).

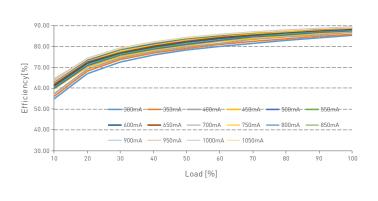


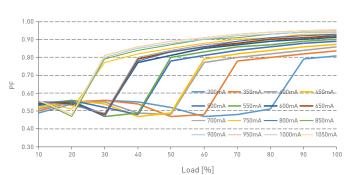




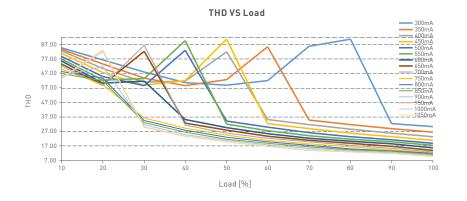
Relationship Diagrams

Efficiency VS Load

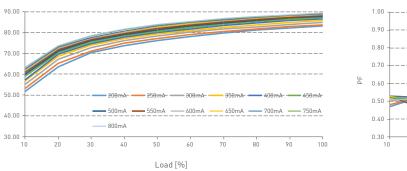




Power Factor VS Load



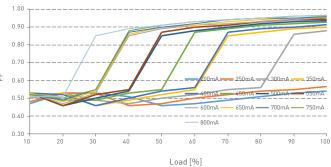
SE-40-300-1050-W2D

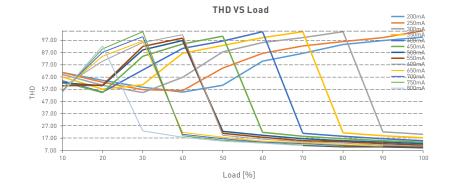


Efficiency VS Load

Efficiency[%]

Power Factor VS Load





SE-30-200-800-W2D



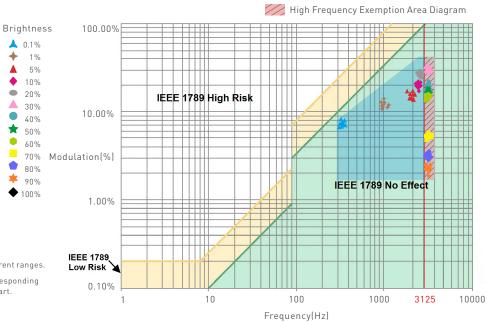


Flicker Test Sheet

Modulation Area Diagram
High Frequency Exemption

IEEE 1789

Limit of modulation in low risk area			
<i>f</i> ≤ 8Hz	0.2		
8Hz < <i>f</i> ≤ 90Hz	0.025 × f		
90Hz < <i>f</i> ≤ 1250Hz	0.08 × f		
f > 1250Hz	Exemption assessment		
Limit of modulation in no effect area			
<i>f</i> ≤ 10Hz	0.1		
10Hz < f ≤ 90Hz	0.01 × f		
90Hz < <i>f</i> < 3125Hz	[0.08/2.5] × f		
f > 3125Hz	Exemption assessment (High frequency exemption)		



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.

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

- 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.





Update Log

Version	Updated Time	Update Content	Updated by
AO	2022.10.09	Original version	Liu Weili