

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 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, 207.
- 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.
- $\bullet\,$ Comply with the EU's ErP Directive, networked standby<0.5W.
- $\bullet\,$ Multiple current levels, wide voltage range, suitable for LEDs with different power
- 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).









10000:1









W UK W O CB SELV C Class 2 ErP O D D





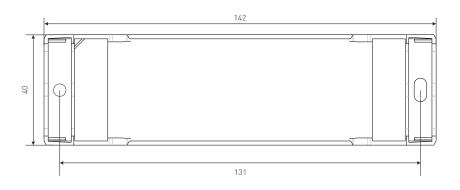
Technical Specs

lechnical						
Model			300-1050-W1D		SE-30-200-800-W1D	
	Output Type		it current			
Features	Dimming Interface	DALI D1	Γ6			
	Output Feature	Isolation	1			
	Protection Grade	IP20				
	Insulation Grade	Class II	(Suitable for class I/ II /I	II light fixtures)		
	Output Voltage	9-42Vdc				
оитрит	Maximum output voltage	≤55Vdc				
	Output Current Range	300-105	i0mA		200-800mA	
	Output Power Range	2.7W-40W 1.8W-30W				
	Dimming Range	0~100%, down to 0.01%				
	LF Current Ripple	<3%[Maximum current for non dimming state]				
	Current Accuracy	±5%				
	PWM Frequency	<3600Hz				
	DC Voltage Range	120-300Vdc				
	AC Voltage Range	100-240Vac				
	Input Voltage	115Vac/230Vac				
	Frequency	50/60Hz				
	Input Current	<0.45A/	115Vac, ≤0.22A/230Vac		<0.34A/115Vac, <0.17A/230Vac	
	Power Factor	PF>0.95	i/115Vac (at full load), P	F>0.9C/230Vac (at full load)		
INPUT	THD	THD≤10	1%/230Vac, at full load			
	Efficiency (Typ.)	88%			87%	
	Inrush Current	Cold sta	art 25A(Test twidth=130u	s 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 ~ 959	%RH, non-condensing			
ENVIRONMENT	Storage Temperature/Humidity	-40 ~ 80°C/10~95%RH				
	Temperature Coefficient	±0.03%/°C[0-50°C]				
	Vibration	10~500H	Hz, 2G 12min/1cycle, 72	min for X, Y and Z axes respectively		
	Overload Protection	Automa	tically protect the device	when the load exceeds 102% of the rated pow	er. 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	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/F	P: 3750Vac			
	Insulation Resistance	//P-0/P: 100MΩ/500VDC/25°C/70%RH				
		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		
		RCM	Australia	AS 61347-1, AS 61347-2-13		
		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384		
SAFETY		UKCA	Britain	BS EN 61347-1, BS EN 61347-2-13, BS EN 62493		
&		BIS	India	IS 15885 (PART 2/SEC 13)		
EMC		CUL	Canada	CSA C22.2 NO.250.13		
		UL	America	UL 8750		
	FMC Emission	CCC	China	GB/T17743, GB17625.1		
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN	161547	
	EMC Emission	KC	Korea	KSC 9815. KSC 9547		
	EMC Emission	KC FAC	Korea Russia	KSC 9815, KSC 9547 IEC62493, IEC61547, EH55015		
	EMC Emission	EAC	Russia	IEC62493, IEC61547, EH55015	161547	
	EMC Emission	EAC RCM	Russia Australia	IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN		
	EMC Emission	EAC	Russia	IEC62493, IEC61547, EH55015		
	EMC Emission	EAC RCM UKCA	Russia Australia Britain	IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN BS EN IEC 55015, BS EN IEC 61000-3-2, E		
	EMC Emission	EAC RCM UKCA CUL UL	Russia Australia Britain Canada	IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN BS EN IEC 55015, BS EN IEC 61000-3-2, E ICES-005 FCC PART 15B		
		EAC RCM UKCA CUL UL EN6100	Russia Australia Britain Canada America	IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN BS EN IEC 55015, BS EN IEC 61000-3-2, E ICES-005 FCC PART 15B		
		EAC RCM UKCA CUL UL EN6100 Standby	Russia Australia Britain Canada America 10-4-2,3,4,5,6,8,11, ENco	IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN BS EN IEC 55015, BS EN IEC 61000-3-2, B ICES-005 FCC PART 15B 51547 No standby mode		
	EMC Immunity	EAC RCM UKCA CUL UL EN6100 Standby Network	Russia Australia Britain Canada America 10-4-2,3,4,5,6,8,11, ENd prower consumption ked standby	IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN BS EN IEC 55015, BS EN IEC 61000-3-2, B ICES-005 FCC PART 15B 51547 No standby mode <0.5W [After shutdown by command]		
ErP	EMC Immunity	EAC RCM UKCA CUL UL EN6100 Standby Network	Russia Australia Britain Canada America 10-4-2,3,4,5,6,8,11, ENd power consumption ked standby power consumption	IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN BS EN IEC 55015, BS EN IEC 61000-3-2, B ICES-005 FCC PART 15B 61547 No standby mode «0.5W [After shutdown by command] «0.5W [When the lamp is not connected]	S EN 61000-3-3, BS EN 61547	
ErP	EMC Immunity	EAC RCM UKCA CUL UL EN6100 Standby Network No-load	Russia Australia Britain Canada America 10-4-2,3,4,5,6,8,11, ENd power consumption ked standby power consumption 89	IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN BS EN IEC 55015, BS EN IEC 61000-3-2, B ICES-005 FCC PART 15B 61547 No standby mode «0.5W [After shutdown by command] «0.5W [When the lamp is not connected] Meet IEEE 1789 standard/High frequency ex	S EN 61000-3-3, BS EN 61547	
ErP	EMC Immunity Power Consumption Flicker/Stroboscopic Effect	EAC RCM UKCA CUL UL EN6100 Standby Network No-load IEEE 175	Russia Australia Britain Canada America 10-4-2,3,4,5,6,8,11, ENcorpower consumption ked standby power consumption 89	IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN BS EN IEC 55015, BS EN IEC 61000-3-2, B ICES-005 FCC PART 15B (1547 No standby mode «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	S EN 61000-3-3, BS EN 61547	
ErP	EMC Immunity Power Consumption	EAC RCM UKCA CUL UL EN6100 Standby Network No-load	Russia Australia Britain Canada America 10-4-2,3,4,5,6,8,11, ENcorpower consumption ked standby I power consumption 89 1 actor	IEC62493, IEC61547, EH55015 EN55015, EN61000-3-2, EN61000-3-3, EN BS EN IEC 55015, BS EN IEC 61000-3-2, B ICES-005 FCC PART 15B 61547 No standby mode «0.5W [After shutdown by command] «0.5W [When the lamp is not connected] Meet IEEE 1789 standard/High frequency ex	S EN 61000-3-3, BS EN 61547	

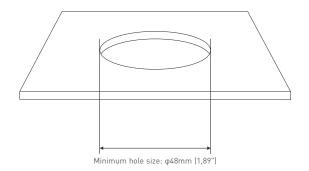


Product Size

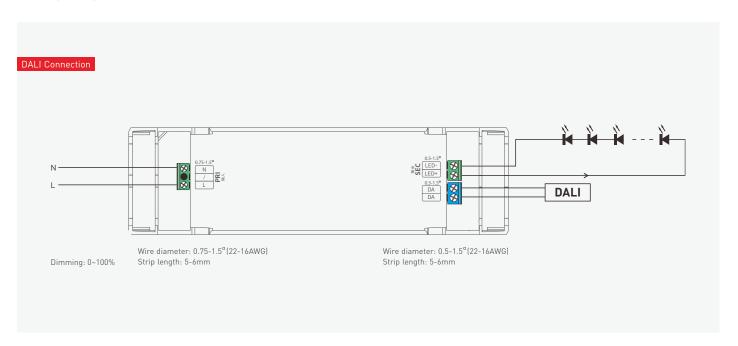
Unit: mm







Wiring Diagram

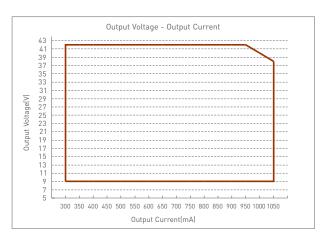




Current and Parameters Sheet

Set output current on the NFC programmer or via the App					
	Output Current (I) Range	300-952mA	953-1050mA		
SE-40-300-1050-W1D	Output Voltage (U) Range	9-42Vdc	See the curve below for details		
	Output Power (P) Range	2.7-40W	8.577-40W		

Set output current on the NFC programmer or via the App					
SE-30-200-800-W1D	Output Current (I) Range	200-714mA	715-800mA		
	Output Voltage (U) Range	9-42Vdc	See the curve below for details		
	Output Power (P) Range	1.8-30W	6.435-30W		



SE-40-300-1050-W1D SE-30-200-800-W1D

Protective Housing Application Diagram



1. Use a tool to pry up the protective housing on the side panel.

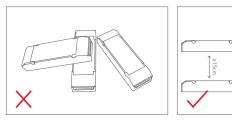
2. Pry up the protective housing in the side plate position with a tool.

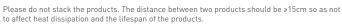
3. Connect to electrical wires with a screwdriver as wiring diagram shows.

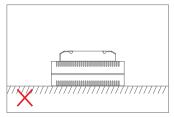
4. Press down the tension plate to fix the the electrical wires.

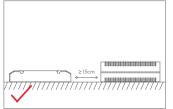
5. Close the protective housing.

Installation Precautions









Please not place the products on LED drivers. The distance between the product and the driver should be $>15 \,\mathrm{cm}$ so as not to affect heat dissipation and shorten the lifespan of the products.



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 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 "AV" button to select the parameters you want to change and press the "OK" button to edit them. Then, press "AV" button to adjust the parameter values and press "I o select the next needed value. After the parameter values are modified, save them by pressing the "OK" button.

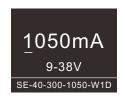
Note: [1] If the current value you set is out of range, The programmer will report an error; [2] The DALI address range: 0-63.

3. Write to the driver

On the home page of the programmer, press the "Av" 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. 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 drive

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. 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.

4 Write to the LFD 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.

















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 phone】.

 $Setup\ page\ 2\ [for\ Read/Write\ on\ NFC\ programmer]\ -\ [CDALI\ template\ on\ programmer]\ .$







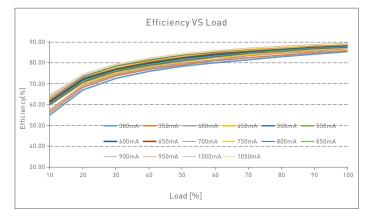


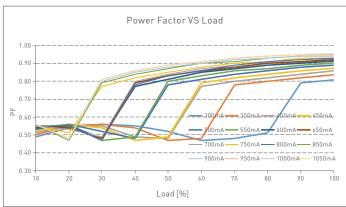
For more advanced solution settings, please scan the QR code below and check out the NFC programmer manual (model: LT-NFC).

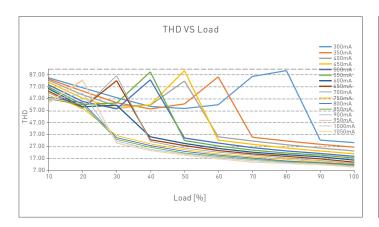


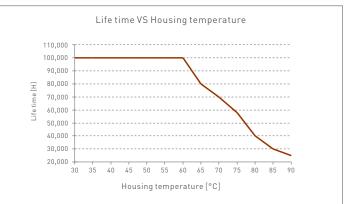


Relationship Diagrams

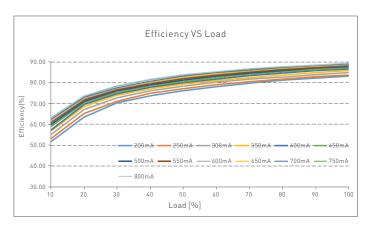


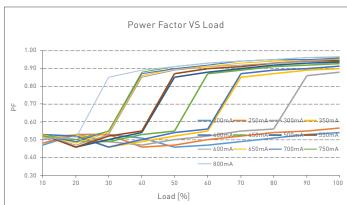


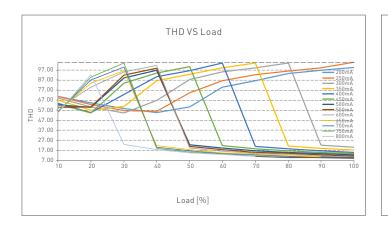


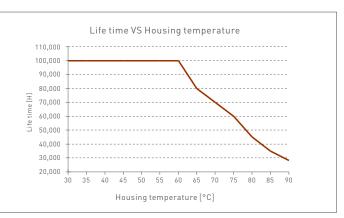


SE-40-300-1050-W1D





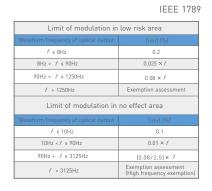


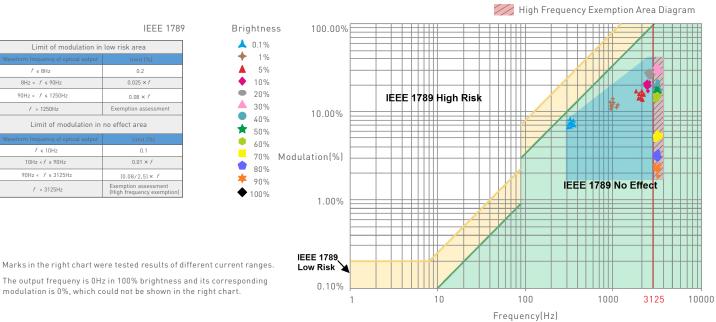


Modulation Area Diagram



Flicker Test Sheet





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-W1D	SE-30-200-800-W1D
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.
- $\bullet \quad \mathsf{Good} \ \mathsf{heat} \ \mathsf{dissipation} \ \mathsf{will} \ \mathsf{extend} \ \mathsf{the} \ \mathsf{life} \ \mathsf{the} \ \mathsf{product}. \ \mathsf{Please} \ \mathsf{install} \ \mathsf{the} \ \mathsf{product} \ \mathsf{in} \ \mathsf{a} \ \mathsf{environment} \ \mathsf{with} \ \mathsf{good} \ \mathsf{ventilation}.$
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- $\bullet \quad \text{Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.} \\$
- 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

- $\bullet \quad \text{Warranty periods from the date of delivery: 5 years.}$
- $\bullet \quad \text{Free repair or replacement services for quality problems are provided within warranty periods}.$

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.
- $2.\,\mathsf{LTECH}\ \mathsf{has}\ \mathsf{the}\ \mathsf{right}\ \mathsf{to}\ \mathsf{amend}\ \mathsf{or}\ \mathsf{adjust}\ \mathsf{the}\ \mathsf{terms}\ \mathsf{of}\ \mathsf{this}\ \mathsf{warranty}, \ \mathsf{and}\ \mathsf{release}\ \mathsf{in}\ \mathsf{written}\ \mathsf{form}\ \mathsf{shall}\ \mathsf{prevail}.$



Update Log

Version	Updated Time	Update Content	Updated by
Α0	2022.10.09	Original version	Liu Weili