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, power-on fading time and other parameters $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}$
- Adjustable output current with 1mA step.
- Bluetooth 5.0 SIG Mesh with high networking capability is reliable and stable.
- Gain control on iOS or Android devices through Bluetooth connection.
- Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWM™ dimming technology allows quality and high-end lighting.
- $\bullet\,$ The whole dimming process is flicker-free with high frequency exemption level.
- Dimming from 0~100%, down to 0.0001%.
- $\bullet\,$ Comply with the EU's ErP Directive, networked standby<0.5W.
- $\bullet\,$ 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.
- \bullet 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: 1000000:1











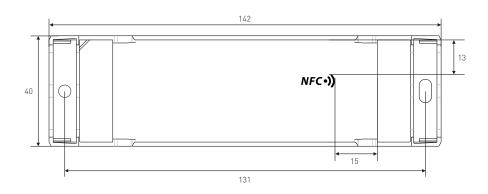


Tochnical Space

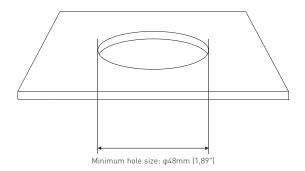
Model		SE-40-1	300-1050-W1B	SE-30-200-800-W1B				
Houet	Output Type			3E-30-200-000-W1B				
	Dimming Interface	Constant current Bluetooth 5.0 SIG Mesh						
Features	Output Feature	Isolatio						
l catalog	Protection Grade	IP20						
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)						
	Output Voltage	9-42Vdc						
	Maximum output voltage	\$55Vdc						
	Output Current Range	300-1050mA 200-800mA						
	Output Power Range		2.7W-40W 1.8W-30W					
OUTPUT	Dimming Range		, down to 0.0001%	1.011 0011				
	LF Current Ripple		aximum current for non	dimming state)				
	Current Accuracy	±5%		J. C.				
	PWM Frequency	≤3600Hz						
	DC Voltage Range	120-250Vdc						
	AC Voltage Range	100-240Vac						
	EoFi	100%						
	Input Voltage	115Vac/230Vac						
	Frequency	50/60H:	7					
	Input Current		115Vac, ≤0.22A/230Vac	≤0.34A/115Vac, ≤0.17A/230Vac				
	Power Factor	PF>0.95	i/115Vac (at full load), F	PF>0.9C/230Vac (at full load)				
INPUT	THD	THD≤10	%/230Vac, at full load					
	Efficiency (Typ.)	88%@9	50mA (at full load)	87%@750mA (at full load)				
	Inrush Current	Cold start 25A(Test twidth=130us tested under 50% peak)/230Vac						
	Anti Surge	L-N: 2k	V					
	Leakage Current	Max. 0.	5mA					
	Working Temperature	ta: -20	~ 45°C tc: 90°C					
ENVIRONMENT	Working Humidity	20 ~ 95%RH, non-condensing						
	Storage Temperature/Humidity	· · ·						
	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 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						
ROTECTION	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	EN61347-1, EN61347-2-13, EN62493				
		СВ	CB Member States	IEC61347-1, IEC61347-2-13				
		CE	European Union	EN61347-1, EN61347-2-13, EN62384				
	Safety Standards	KC	Korea	KC61347-1, KC61347-2-13				
		EAC	Russia	IEC61347-1, IEC61347-2-13				
		RCM	Australia	AS 61347-1, AS 61347-2-13				
CAFETY		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384				
SAFETY &		UKCA	Britain	BS EN 61347-1, BS EN 61347-2-13, BS EN 62493				
EMC		BIS	India	IS 15885 (PART 2/SEC 13)				
		CUL	Canada America	CSA C22.2 NO.250.13				
	EMC Emission	CCC	China	UL 8750 GB/T17743, GB17625.1				
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547				
		KC	Korea					
		EAC	Russia	KSC 9815, KSC 9547				
		RCM	Australia	IEC62493, IEC61547, EH55015				
		UKCA	Britain	EN55015, EN61000-3-2, EN61000-3-3, EN61547				
		CUL	Canada	BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547 ICES-005				
		UL	America	FCC PART 15B				
	EMC Immunity		10-4-2,3,4,5,6,8,11, EN					
			ked standby	<0.5W (After shutdown by command)				
	Power Consumption		power consumption	<0.5W (When the lamp is not connected)				
ErP			-	<u.bw [when="" connected]<="" is="" lamp="" not="" p="" the=""> Meet IEEE 1789 standard/High frequency exemption level</u.bw>				
	Flicker/Stroboscopic Effect	IEEE 1789 CIE SVM		Meet IEEE 1/89 standard/High frequency exemption level Pst LM<1.0, SVM<0.4				
	DF	PSI LIME 1.0, SVM €0.4 Phase factor DF ≥ 0.9						
	Weight(N.W.)			150g±10g				
	I VYCIUITUIN.VV.I	170g±10g 150g±10g 142×40×23mm(L×W×H)						
OTHERS	Dimensions	1/2/0	.22mm(1\M11	'				

Product Size

Unit: mm







Wiring Diagram

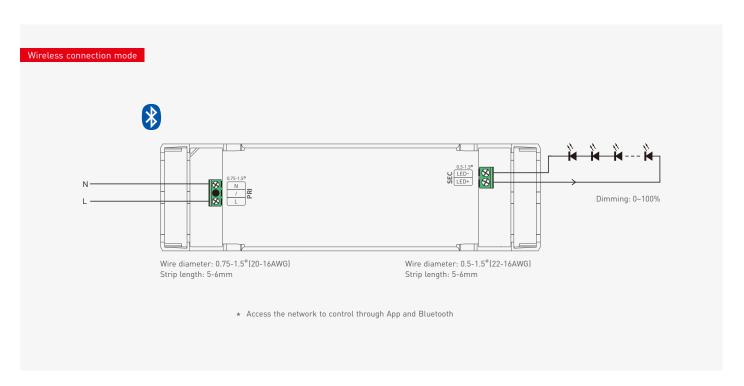




Table of Typical Corresponding Parameters for Current

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-W1B										
	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-W1B									
	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

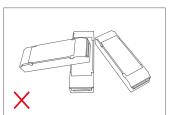


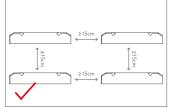
1. Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.



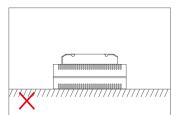
2. Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

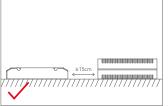
Installation Precautions





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 \ge 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).

SE-40-300-1050-W1B

SE-30-200-800-W1B



* 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. Edit the parameters

Click 【Parameter settings】 to edit the advanced parameters, like output current, time for fading on/off, power-on fading time, power-on status, 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.



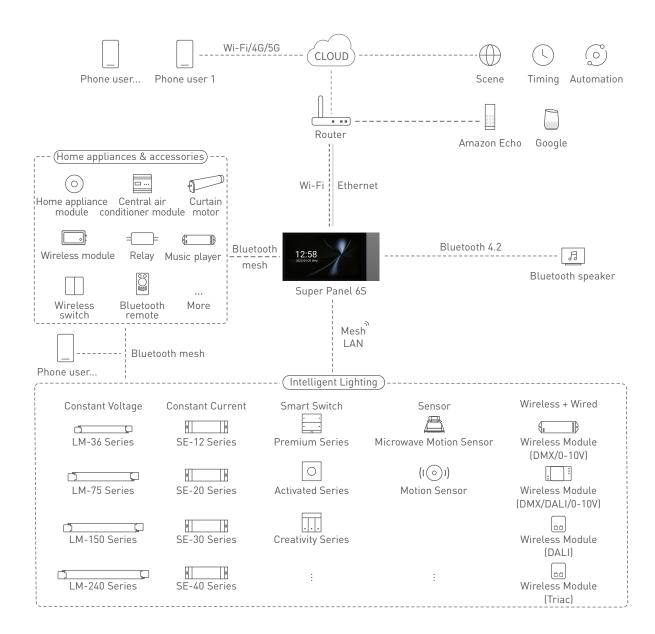






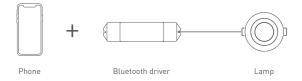


Bluetooth System Diagram



Recommend Applications

1. Achieve fast dimming control.



2. Both App and remote can control the driver after connecting the remote to the driver with App.



3. Both App and Super Panel 6S can control the driver simultaneously after connecting the Super Panel 6S to the driver with App. By connecting the Super Panel to network, you are allowed to control the driver, cloud scenes and automation remotely with App.



 ${\it 4......} More applications of intelligent control are waiting for you to set up.\\$



Use with Bluetooth L-Home APP

1. Register an account

The App is available on iOS or Android devices. Scan the QR code below with you mobile phone and follow the prompts to complete the App installation. Open the App to log in or register an account.



2. Paring instructions

Open the APP and create a home if you are a new user. Click "+" icon in the upper right corner and access the "Add Device" list, then follow the prompts to add the device. Pick "Smart lighting-DIM light" from the list and follow the prompts to power on the device firstly. Make sure the device is not connected to the network. Then click "Bluetooth Search" and follow the prompts to add the device.







3. Control interface settings

After pairing up your device, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness. Click "Theme" and you'll easily switch to multiple theme lighting effects with one tap. Click "Mode" and the App provides you editable advanced modes. Customize dynamic modes to put you into a more colorful life.









4. Light groups

Users are able to combine the same type of light fixtures into a group to control them simultaneously. Once you create the group, you can set the dim level more easily. Pick "Group-DIM light group" from the list. Follow the prompts to rename the group and click "Next" to pick the lights you are going to group together and click "Save".





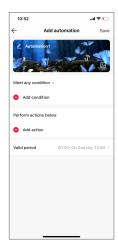


5. Advanced functions

This driver can be linked up with gateway function devices (such as LTECH Super Panel) to achieve the advanced functions from cloud scenes to automation.

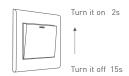


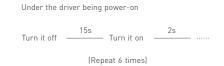




Reset The Device (Reset to factory defaults)

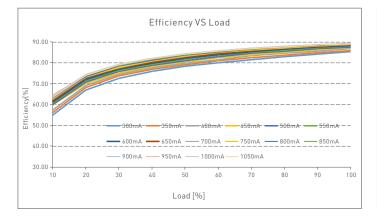
Make sure the driver is well-connected to a lamp and the lamp is on, turn it off with the switch and after 15s turn it on. After 2s, turn it off again. Repeat the same operation 6 times. When the lamp flashes 5 times, reset the device to factory defaults successfully.

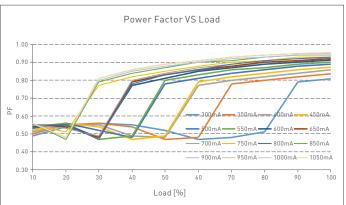


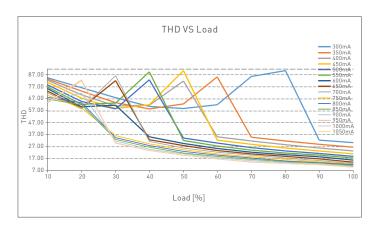


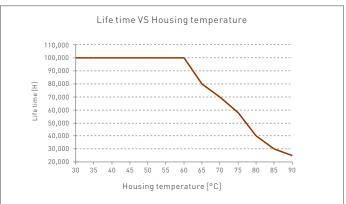
LTECH

Relationship Diagrams

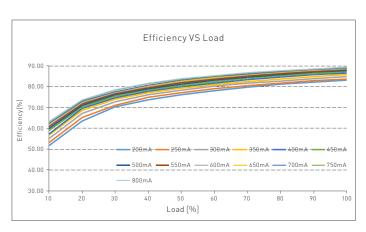


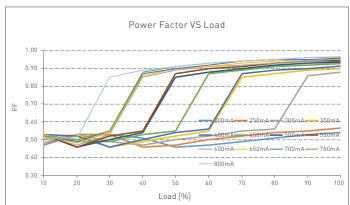


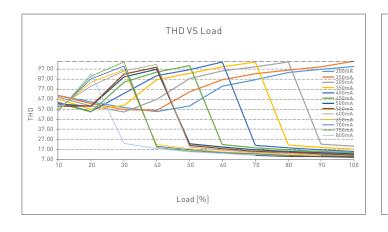


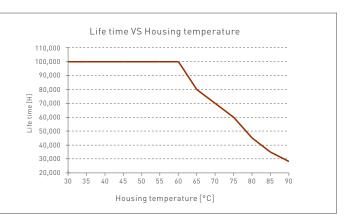


SE-40-300-1050-W1B



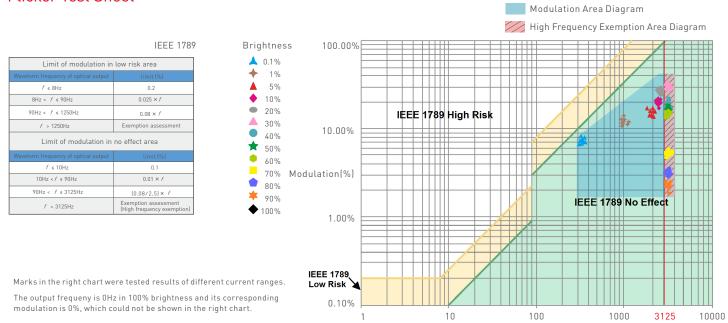








Flicker Test Sheet



Packaging Specifications

Model	SE-40-300-1050-W1B	SE-30-200-800-W1B
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



Frequency(Hz)

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.
- $\bullet \quad \text{Free repair or replacement services for quality problems are provided within warranty periods}.$

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

ZHUHAI LTECH TECHNOLOGY CO., LTD.



Update Log

Version	Updated Time	Update Content	Updated by
Α0	2023.02.23	Original version	Liu Weili