SE-12-100-400-W1B

Intelligent LED Driver (Constant Current)

- Adopt SAMSUNG/COVESTRO V0 flame resistant polycarbonate protective housings with small size and light weight.
- Bluetooth 5.0 Mesh with high networking capability are reliable and stable.
- Soft-on and fade-in function provides the soft start time from 0s to
- 99s that enhances visual comfortAdjust brightness levels when lights are turned on or go to the
- brightness level adjusted last time.
- T-PWM[™]dimming technology allows continuous and flicker-free images under high-speed shooting.
- 0-100% flicker-free dimming with high frequency exemption level.

Flicker-free

- Dimming from 0~100%, down to 0.01%.
- Innovative thermal management technology protects the power life intelligently.
- Overheat, overvoltage , overload, short circuit protection and automatic recovery.
- \bullet Suitable for indoor light applications of $\mathbb{I}\,/\mathbb{II}/\mathbb{III}$ type .
- Up to 50000-hour life time.
- 5 -year warranty (Rubycon capacitor).



LTECH

Technical Specs

T-PWM

Model		SE-12-100-400-W1B					
	Output voltage	9-42Vdc					
	Max output voltage	50Vdc					
	Output current	100-400mA					
	Strobe level	No visible flicker/High frequency exemption level					
INPUT	Dimming range	0~100%, down to 0.1%					
INFOI	LF current ripple(<120Hz)	<1%					
	Current accuracy	±5%					
	Ripple&noise	≤2V					
	PWM dimming frequency	≤3600Hz					
OUTPUT	Wireless protocol type	Bluetooth 5.0 Mesh					
	Input voltage	100-240Vac (120-300Vdc)					
	Frequency	0/50/60Hz					
	Input current	115Vac≤0.2A, 230Vac≤0.1A					
	Power factor	PF≥0.95/115Vac , PF≥0.85/230Vac (Full load)					
	Efficiency (Typ)	80%					
	Inrush current	Cold start5A@230Vac (Test twidth=40 us tested under50% Ipeak)					
	Anti surge	L-N: 1kV					
	Leakage current	<0.24mA/230Vac					
	Working temperature	ta: -20 ~ 50°C tc: 75°C					
	Working humitdity	20 ~ 95%RH, non-condensing					
ENVIRONMENT	Storage temperature/Humidity	-40 ~ 80°C, 10~95%RH					
	Temp coefficient	±0.03%/°C(-20°C-50°C)					
	Vibration	10-500HZ, 2G 12min/1cycle , 72 min for X,Y and Z axes respectively.					
PROTECTION	Overvoltage protection	Shut down the output and recover automatically once it exceeds no-load voltage.					
	Overload protection	Shut down the output and recover antomatically once it exceeds1.02 times of the max load power.					
	Overheat protection	Intelligently adjust or turn off the output current if the PCB temperature \ge 110°C, and recover automatically.					
	Short circuit protection	When short circuit occurs, shut down the output and recover automatically.					
SAFETY & EMC	Withstand voltage	I/P-0/P:3750Vac					
	Insulation resistance	I/P-0/P:500VdC/25°C/70%RH≥100MΩ					
	Safety standards	IEC/EN61347-1, IEC/EN61347-2-13					
	EMC emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3					
	EMC immunity	EN61000-4-2,3,4,5,6,8,11, EN61547					
	Strobe test standard	IEEE 1789					
	Dimensions(L×W×H)	167×41×32mm(L×W×H)					
OTHERS	Package size(L×W×H)	168×43×35mm(L×W×H)					
	Gross weight	120g±10g					

Bluetooth 5.0 Mesh

Bluetooth 5.0 Mesh



LED Current Selection

* DIP switch quickly selects multiple current value(See the table below).

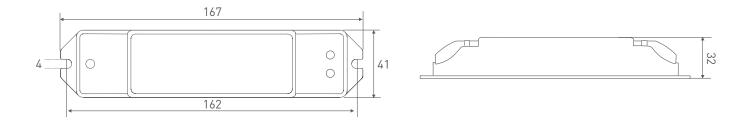
* Please set current value when the driver is power-off.



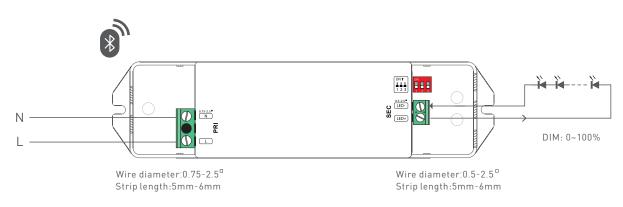
	DIP Switch	117	111	111	† ⊥⊥	T 1 T	TTL	ŤŦŦ	T
SE-12-100-400-W1B	Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA	ON
	Output Voltage	9-42V	9-42V	9-42V	9-42V	9-40V	9-34V	9-30V	
	Output Power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12W	3.15-11.9W	3.6-12W	OFF

Product Size

Unit : mm



Wiring Diagram

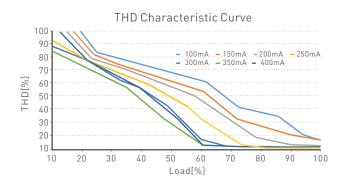


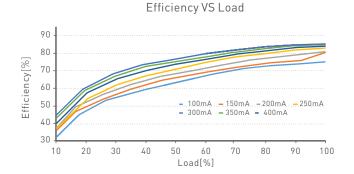




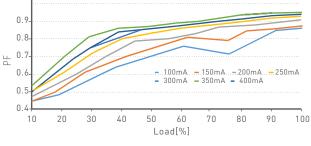


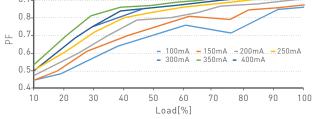
Relationship Diagrams

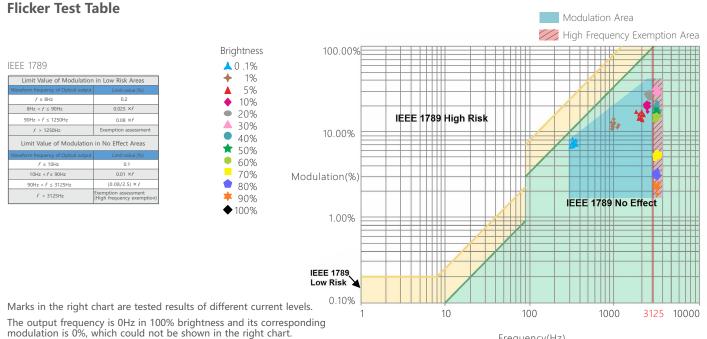












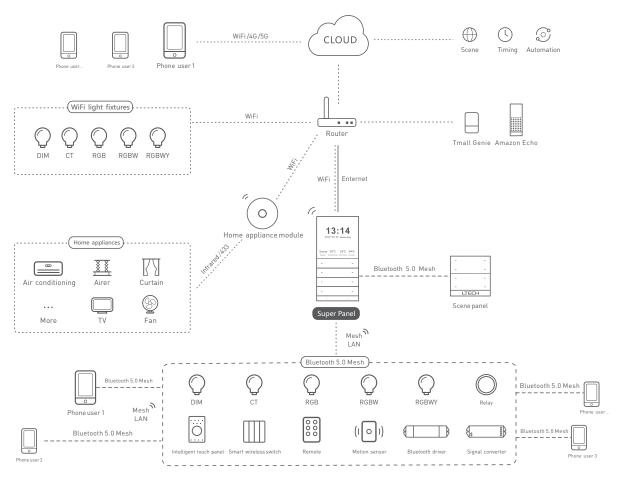
Frequency(Hz)

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3

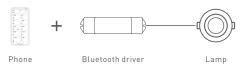


Application Diagram



Recommend Applications

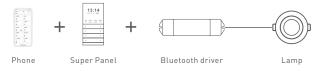




2、Both App and remote can control the driver after connecting the remote to the driver with App.



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



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

Other Instructions

If the driver works with a remote, gateway ,intelligent wireless switch or other items ,please refer to related manuals.



App Operating Instructions

1.Register an account

Scan the QR code below with you mobile phone and follow the prompts to complete the app installation.

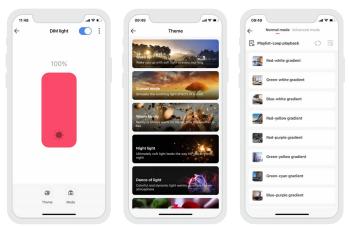


1.2 Open the App and log in or register an account.



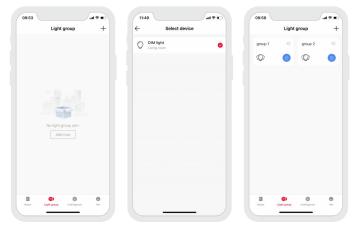
3.Control interface settings

After pairing up, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness. Click "Theme" to access eight non-editable dynamic themes provided. Click "Mode" to access "Advanced Mode" and the App offers you eight editable advanced modes.



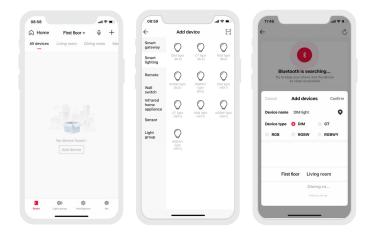
5.Light groups

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. Switch to "Group" menu and click "+"icon in the upper right corner. Follow the prompts to rename the group and click "Next" to pick the lights you are going to group together and to save them.



2. Control interface settings

Create a home if you are a new user. Click"+"icon in the upper right corner and access the "Add Device"list. Pick"Smart lighting"from the list and select the light fixture type you want to add. Follow the prompts on the App. Power on the device firstly, and make sure the device is not connected to network . Then click"Bluetooth Search" and follow the prompts to add the device.



4.Function settings

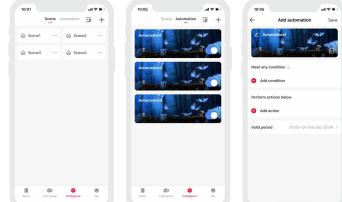
Click ":"icon in the upper right corner of control interface and go to settings.

- 4.1 The driver allows you to set up your desired lighting effects after being power on.
- 4.2 The driver also supports soft-on dimming that makes a gradual and smooth transformation to create comfortable and healthy lighting environments.

00:52	
ON	1.0S
OFF	1.0S
	ON

6. Advanced functions

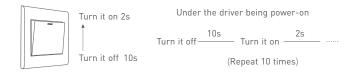
The driver can be linked up with gateway function devices (such as LTECH Super Panel) to achieve the advanced functions from cloud scenes to automation.





Reset The Device (Reset to factory defaults)

When the driver is power-on, turn it off and after 10s turn it on. After 2s, turn it off again. Repeat the same operation 10 times and then turn on the driver again. When the lamp is flashing (2 flashes/s), reset the device successfully.



FAQs

- 1. What should I do if I fail to add the device?
 - 1.1 Please make sure the device is powered on normally and is in the activated mode.
 - 1.2 Please make sure the device hasn't been added by any other account. If it did, please reset to factory defaults manually.
 - 1.3 The recommended distance between the mobile phone and the device is no more than 20 meters.
 - 1.4 If the device has been forced to delete, please reset to factory defaults manually and then add the device again.
- 2. What should I do if the device disconnects from the network?
 - 2.1 Please make sure the device is powered on normally.
 - 2.2 Please make sure the router works with network available.
 - 2.3 If you control the device remotely, please make sure your phone network works normally.
- 3. How to control remotely and set cloud scenes?
- Remote control and cloud scenes can achieved only by working with LTECH Super Panel.
- 4. How to share control of your home devices?
 - Please go to "Me" "Home Management" and access the home you want to share.

Click "Add Member" and follow the prompts to add members to your home.

Attentions

- Products shall be installed by qualified professionals.
- LTECH products are 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 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.