

Smart Power Supply

Tuya Zigbee Integrated Dimmable Power Supply 85028-240W Series

Product Introduction

85028-240W series integrated power supply is Dim/CCT/RGB/RGBW/RGB CCT dimming driver equipped with Tuya ZigBee 3.0 module. The product is equipped with Tuya APP and intelligent gateway to achieve 1%-100% dimming, scene switching, time setting, group control and other functions.

It can easily access intelligent voice platforms such as small speakers, XiaoAi speakers, XiaoMi speaker, Amazon Alexa, Google Assistant, etc., to achieve AI voice interaction function; Combined with the use of graffiti ecological chain products and various lamps.

It can be applied to high-end places such as smart homes, smart hotels, smart commercial lighting, smart offices, and smart buildings.

Product characteristics

- Tuya ZIGBEE module chip imported SILICON LABS(Core)
- Module power supply uses AC-DC plus LLD power supply
- The shell is made of high-grade anti-aluminum material
- Input and output use high-grade lock screw terminals
- Product reset using key reset
- Maximum load of the product is 2.5A
- Motherboard adopts integral gluing process
- Flame retardant PCB

Technical Parameter



Mode No		85028-240W-Dim	85028-240W-CCT	85028-240W-RGB	85028-240W-RGBW	85028-240W-RGBCW
Input	Voltage	180-240Vac	180-240Vac	180-240Vac	180-240Vac	180-240Vac
	Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Power Factor	>0.5@230Vac	>0.5@230Vac	>0.5@230Vac	>0.5@230Vac	>0.5@230Vac
	Efficiency	91%	91%	91%	91%	91%
	Standby Power	Max.1.8W	Max.1.8W	Max.1.8W	Max.1.8W	Max.1.8W
Output	Anti Surge	L-N:1KV	L-N:1KV	L-N:1KV	L-N:1KV	L-N:1KV
	Current	10A Max	10A Max	10A Max	10A Max	10A Max
	Voltage	DC24V	DC24V	DC24V	DC24V	DC24V
	Power	240W Max	240W Max	240W Max	240W Max	240W Max
	Current accuracy	±5%	±5%	±5%	±5%	±5%
	Strobe Level	No Strobe	No Strobe	No Strobe	No Strobe	No Strobe
	No Load Voltage	DC24V	DC24V	DC24V	DC24V	DC24V
	On Time	0-100% 3S	0-100% 3S	0-100% 3S	0-100% 3S	0-100% 3S
	Ripples & Noise	200mA @230Vac	200mA @230Vac	200mA @230Vac	200mA @230Vac	200mA @230Vac
Functional protection	PWM Dimming Frequency	16000Hz	16000Hz	16000Hz	16000Hz	16000Hz
	Communication	Zigbee	Zigbee	Zigbee	Zigbee	Zigbee
	Dimming Range	0.1-100%	0.1-100%	0.1-100%	0.1-100%	0.1-100%
	Voice Control	Amazon Alexa/Google Assistant/XiaoMi/ XiaoAi				
	Protection	Overload protection,open circuit protection, over temperature prtoection				
Environment	Working Temperature	-20-45℃ , 20-90%RH				
	StorageTemperature /Humidity	-20-80℃ , 20-95%RH				
	Maximum Shell Temperature	65℃				
Specifications	Bareboard Size	280*44*24mm				
	Weight	Dim/CCT/RGB/RGBW/RGB CCT				
	Light Type	427g				
	Size	280*49*30mm				
	Package	450g				

Smart Power Supply

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Voice service



APP installation registration

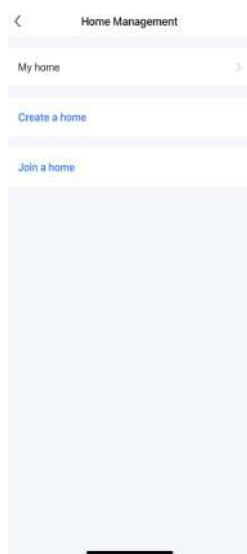
Open the Smart Life+APP, if you have a registered account, log in directly. If you do not have a registered account, scan the QR code below on your phone to download and register.



Scan code to download Smart Life

Distribution Network Steps

After the new user enters "My" → "Home Management", they can manage the naming of their home location and rooms. They can return to the homepage and click on "My Home" and click on "+" in the upper right corner to "Add New Device". After the corresponding permissions are enabled, they can automatically search for devices in the Add Device list and discover devices such as Bluetooth/WiFi/ZigBee. Follow the prompts to complete the addition of the device (please ensure that the device is in a distribution network state)

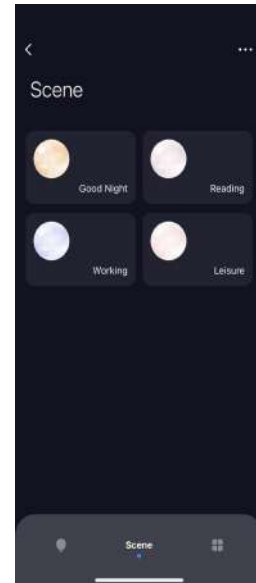
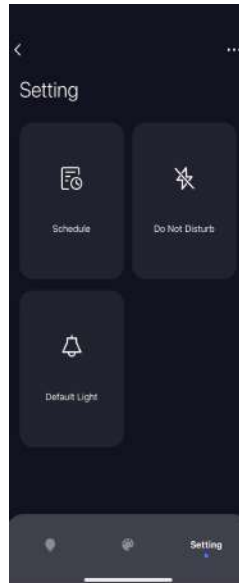
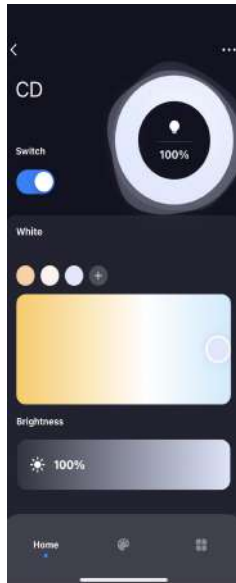


Smart Power Supply

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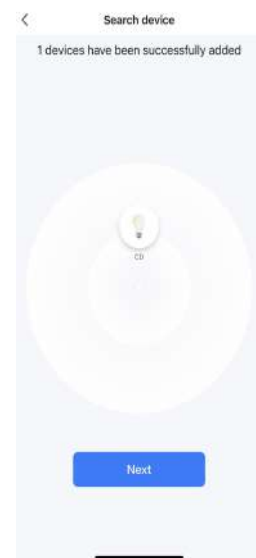
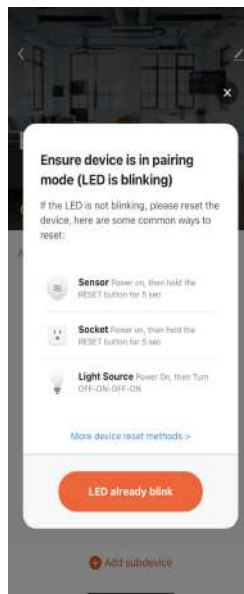
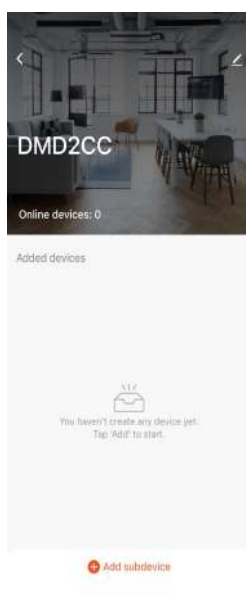
Light control settings

After the device is successfully added, click on the added device to enter the lighting control interface. By adjusting the brightness and color temperature to achieve the desired lighting effect, click on more operations below to set more functions, such as power outage, do not disturb



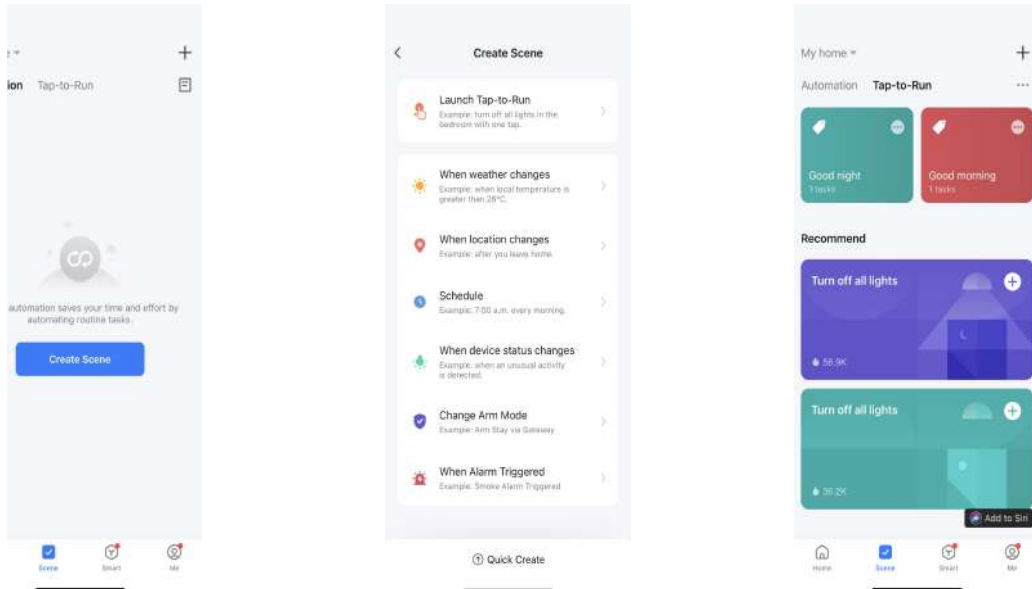
Remote control and automation

Remote control: Follow the interface prompts to add the Tuya ZigBee gateway. After adding, enter the gateway interface, click "Add Sub Device" to add the device to the gateway, and remote control of the device can be achieved;



Smart Power Supply

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Reset device

Distribution Network Description: Join a Zigbee Network

Step 1: If this device has already joined a Zigbee network, please exit the device from the Zigbee network. Otherwise, it may fail.

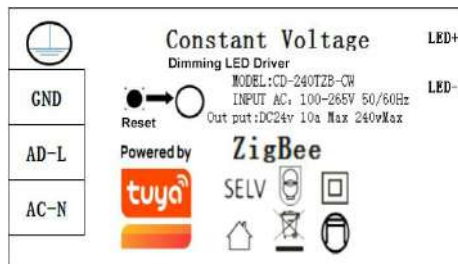
For instructions on how to exit the Zigbee network, please refer to the "Manual Restore Factory Settings" section

Step 2: Operate your Zigbee gateway to add lighting equipment. Please refer to the Zigbee gateway manual for specific instructions

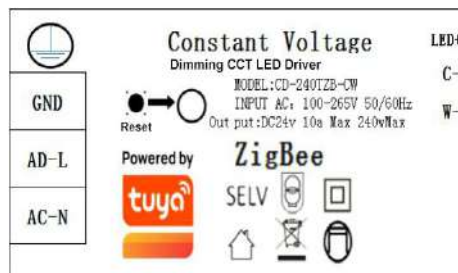
Step 3: Power on the device again, and the device will enter network mode (connected LED light takes a slow breath for 1 minute).

The network mode will last for 10 minutes. If it times out, please repeat this step

Name plate identification

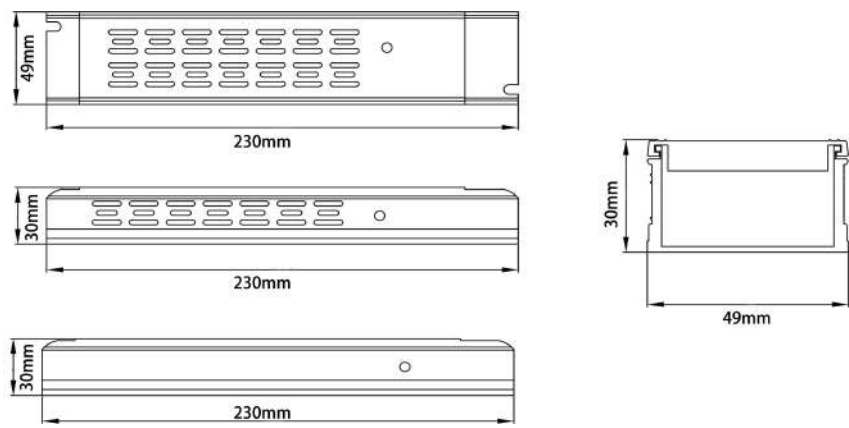


85028-240W-DIM

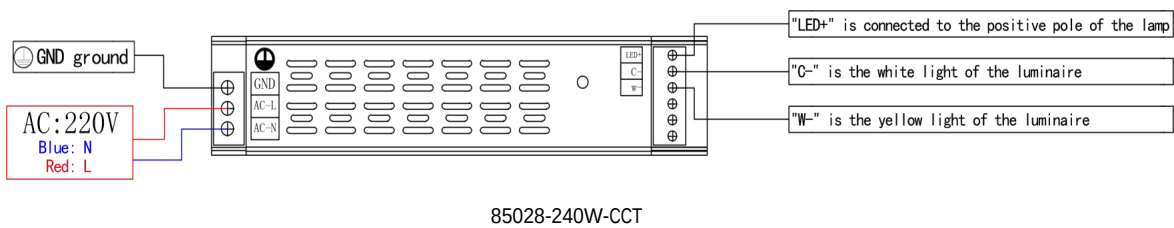
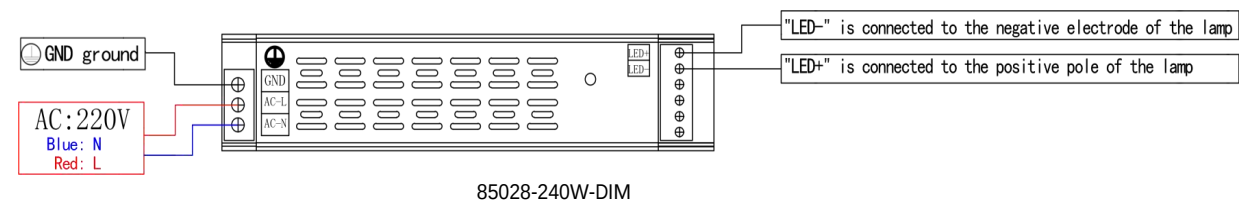


85028-240W-CCT

Dimension



Connection diagram



Fault analysis

problems	Resolvent
light is no on	1.Check whether the input and output wiring of the product is wired according to the instructions, and confirm whether the terminal crimping is firm 2.Check whether the input voltage of the product is normal, whether there is voltage connection, and whether the connection voltage meets the nominal voltage of the product; 3.Check if the product is controlled by external devices (such as panels, remote controls, apps, etc.) to turn off the lights; 4.Check whether the parameters of the selected supporting lighting fixtures match the nominal voltage and current of the product, and confirm whether the lighting fixtures are damaged.
driver can't dim	1.Check if the product has been successfully connected to the network 2.Confirm whether the product has been placed on a metal surface or covered with metal

Smart Power Supply

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Note

- This product is not allowed to be operated with electricity. Please have qualified personnel debug and install it. Before installation, please read the product manual carefully
- This product should not be installed on the surface of metal objects or covered by metal objects, otherwise the wireless signal will be blocked and cannot be controlled; · This product should be used in conjunction with the Tuya ZigBee intelligent gateway and cannot be used alone
- This product cannot be waterproof and needs to be protected from sunlight and rain. The installation of the waterproof box will block wireless signals;
- Do not stack this product for use, do not install it near metal objects (such as dragon frames), and do not install it on beams, corners, or floors
- Good heat dissipation conditions will extend the service life of the product. Please install the product in a well ventilated environment; Please check whether the various parameters of the product used meet the requirements of the product application;
- For safety reasons, it is recommended to use 0.75-1.5mm² for input and output PVC or rubber cables, and ensure that the wiring is firm to avoid accidents caused by overheating or poor contact of the wires;
- Before electrical debugging, ensure that all wiring is correct to avoid product damage caused by wiring errors;
- If a malfunction occurs, do not disassemble it without permission; If you have any questions, please contact the supplier;
- This manual is for reference only. Please refer to the actual product. This product is subject to change without prior notice

Warranty Regulations

- The warranty service period is 3 years from the date of delivery.

Non Warranty Regulations

- The following situations are not within the scope of free warranty or replacement services
- The warranty service period has been exceeded
 - Damage caused by excessive voltage, overload, improper operation, etc.
 - The product appearance is severely damaged or deformed.
 - Damage caused by natural disasters and uncontrollable human factors