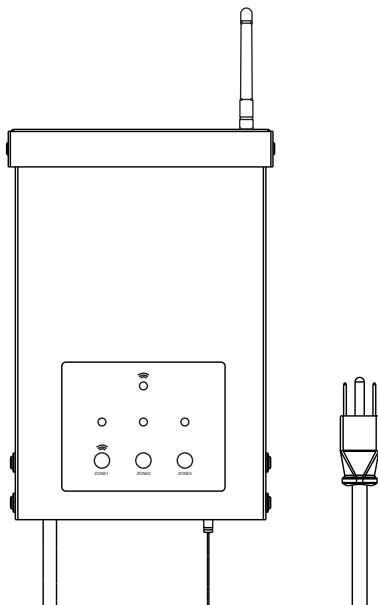# Dewenwils

# **Low Voltage Transformer**

[Instruction Manual]



Please pay attention to the warning signs
Read the instructions with caution before operating
and keep it properly

## WARNING:

To reduce the risk of fire, electric shock or personal injury, please strictly follow the instructions.

1. Do not install within 10 feet (3 m) of a pool, spa or fountain.
2. There are no serviceable parts inside the power supply unit.
   DO NOT DISASSEMBLE.
3. Do not repair or tamper with cord or plug.
4. Do not submerge transformer in water.
5. Do not mount the transformer onto combustible material.
6. Do not connect two or more transformers in parallel.
7. Do not use the transformer with a dimmer switch.
8. Plug the power supply unit directly into a GFCI wet location outlet.
9. For use with low voltage outdoor landscape lighting system only.
10. The maximum output of this transformer is 300 watts. Do not overload the transformer.

Be sure that the total cumulative wattage of all 12 volt fixtures connected to the transformer is equal to or less than 300 watt.

**CAUTION:** This landscape light system must be installed in accordance with all local codes and ordinances.

- If you are experiencing problems, contact a qualified electrician.

## CALCULATION LIGHTING CAPACITY INSTALLATION

- The 300 Watt transformer has 300 watt circuits which will power up to 300 watts of light.
- To ensure safe operation, make sure the total wattage of all fixtures connected to the transformer does not exceed its 300 Watt output capacity.

## Supported Controller or APP:

A Matter-supported controller and its related smart home app are required for setup. e.g. Echo Device and Alexa App, Apple Home Pod and Apple Home App, Nest Device and Google Home, SmartThings Hub and SmartThings App.

## Network:

Before getting started, ensure your mobile device and Matter supported controller are connected to your router's 2.4 GHz Wi-Fi. If you are unsure whether your router broadcasts a 2.4 GHz Wi-Fi connection, please check with the maker or provider of your router.

### INSTRACTION:

**IMPORTANT:**Please refer to INSTALLATION INSTRUCTION before proceeding with Wi-Fi router connection. Wi-Fi Low Voltage Transformer must be installed before connecting to Wi-Fi router.
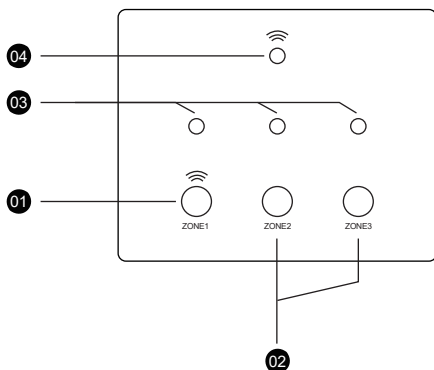


**01 Wi-Fi connection button and Power Button for ZONE 1.**
**02 Power Button for ZONE 2 and ZONE 3.**
**03 Power Indicator**
**04 Status Indicator**

BInking Light: Roady to connect to Wi-Fi router.Press and hold the ZONE1 button, the Status Indicator will flash.

Light continuously ON:Connection to W-Fi router is complete and W-Fi Low Voltage Transformer is ready for use via the app.

Light OFF: Check your internet connection or review the app FAQ.

## Set Up Your Device via Matter

Before You Begin:

- This is a Matter-certified device, allowing seamless integration into any Matter-supported ecosystem of your choice for effortless control.
- To set up, you'll need a Matter-compatible controller and its corresponding smart home app, such as:
  - Amazon Alexa (Echo Device + Alexa App)
  - Google Home (Nest Device + Google Home App)
  - SmartThings (SmartThings Hub + SmartThings App)
- Ensure that both your mobile device and Matter-supported controller are connected to the same 2.4 GHz Wi-Fi network. If you're unsure whether your router supports 2.4 GHz Wi-Fi, please check with your router's manufacturer or service provider.
- Each Wi-Fi smart transformer comes with a unique QR code and 11-digit setup code (XXXX-XXX-XXXX). For convenience, we provide backup stickers on the transformer, allowing you to scan and connect it after installation.
- To avoid losing the setup information, we recommend:
  - Sticking the backup sticker in the space below.
  - Taking a photo of the QR code and storing it on your phone for future reference.

### Backup Stickers posting area:
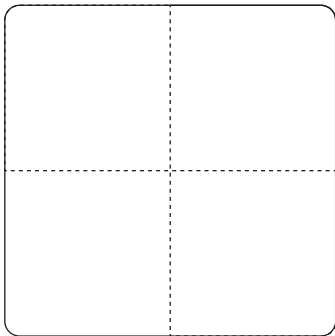
Now, let's take Alexa, Google, and Apple ecosystems as examples to guide you through the Matter setup process:
*(For other apps, such as AiDot App or Tuya Smart Life, the connection process follows similar steps. If you have any questions, please feel free to contact us.)*

## 1. Add to Alexa via Matter

Step 1: Check Compatibility
Ensure your setup meets the following requirements:
  Alexa App: Version 2023.15 or later
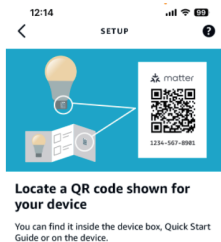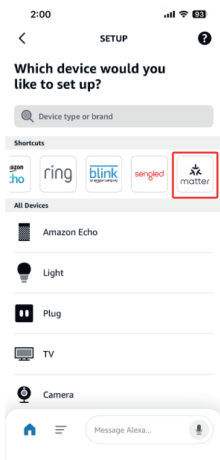  Matter-supported Echo Controller

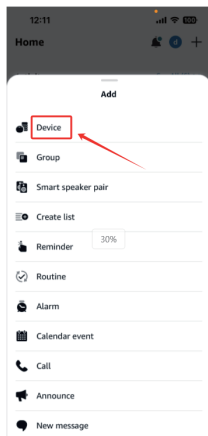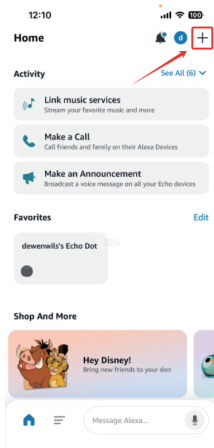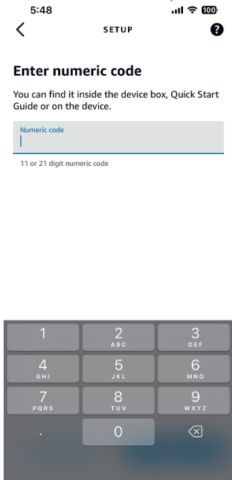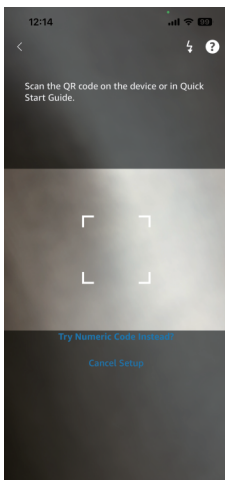| Device | Version |
|--------|---------|
| Echo/Echo Dot | 5th Gen: Echo Dot, Echo Dot (Gen 5 with Clock) 4th Gen: Echo, Echo Dot, Echo Dot (Gen 4 with Clock) 3rd Gen: Echo, Echo Dot, Echo Dot (Gen 3 with Clock) |
| Echo Show | 3rd Gen: Echo Show 10, Echo Show 15 2nd Gen: Echo Show 8, Echo Show 5 1st Gen: Echo Show, Echo Show 8 |

Step 2: Put the Device into Pairing Mode

• Press and hold the ZONE1 button until the status indicator
starts flashing, then release the button.
• The device is now in network configuration mode.

Step 3: Add the Device in the Alexa App

1.Open the **Alexa App**.Tap "**+**" on the home page.

2.Select "**Device**" to enter the device setup interface.

3.Scroll down and select " **Other** ", then tap " ⚡ " (or simply select ⚡ if available).

4.Follow the on-screen instructions to scan the **QR code** or manually enter the **pairing code**.

5.Once the device is successfully added, return to the **Device List**. (Refer to the figure below.)

**Screen 1 (top-left):**

12:10
Home

Activity
See All (6) ⌄

Link music services
Stream your favorite music and more

Make a Call
Call friends and family on their Alexa Devices

Make an Announcement
Broadcast a voice message on all your Echo devices

Favorites
Edit

dewenwils's Echo Dot

Shop And More

Hey Disney!
Bring new friends to your den

Message Alexa...

**Screen 2 (top-right):**

12:11
Home

Add

Device
Group
Smart speaker pair
Create list
Reminder          30%
Routine
Alarm
Calendar event
Call
Announce
New message

**Screen 3 (bottom-left):**

2:00
SETUP
‹                    ?

Which device would you
like to set up?

Device type or brand

Shortcuts

echo    ring    blink    sengled    matter

All Devices

Amazon Echo

Light

Plug

TV

Camera

Message Alexa...

**Screen 4 (bottom-right):**

12:14
SETUP
‹                    ?

matter
1234-567-8901

Locate a QR code shown for
your device

You can find it inside the device box, Quick Start
Guide or on the device.

Try Numeric Code Instead?

Scan QR Code

Step 4: Name Your Device & Start Using It

- Rename the three designated areas of your device as desired.
- Now, you can find your device in the Device List and control it using voice commands.
- Try saying: "Alexa, turn on [Device Name]."

## 2. Add to Google Home via Matter

Step 1: Check Compatibility
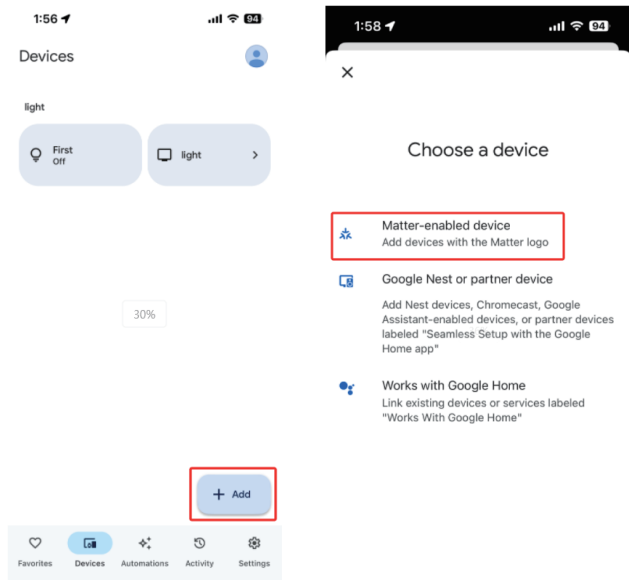Ensure your setup meets the following requirements:

- Google Home App:
  Android: Version 3.3.1.4 or later
  iOS: Version 3.3.104 or later
- Matter-supported Google Controllers:
  Google Nest Audio
  Google Nest Hub / Nest Hub (2nd Gen)
  Google Nest Hub Max
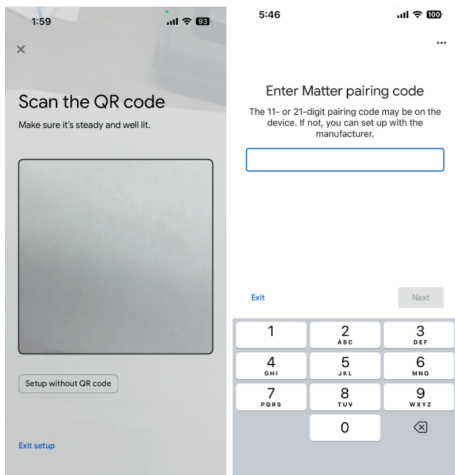  Google Nest Mini
  Nest WiFi Pro

Step 2: Put the Device into Pairing Mode

- Press and hold the ZON1 button until the status indicator starts flashing, then release the button.
- The device is now in network configuration mode.

Step 3: Add the Device in the Google Home App

1. Open the **Google Home App**. Tap "**+**" on the home page.
2. Tap "**+**" on the home page.
3. Select "**Device**" to enter the device setup interface.
4. Tap "**+ Add**", then choose " �  Matter-enabled device".
5. Follow the on-screen instructions to scan the **QR code** or manually enter the **pairing code**.
6. Once the device is successfully added, return to the **Device List**. (Refer to the figure below.)

Step 4: Name Your Device & Start Using It

• Rename the three designated areas of your device as desired.
• Your device is now ready for use!

## 3. Add to Apple Home via Matter

Step 1: Check Compatibility
Ensure your setup meets the following requirements:

• iOS Version: 16.6 or later
• Matter-supported Apple Controllers:
> HomePod
> HomePod mini
> Apple TV

Step 2: Put the Device into Pairing Mode

• Press and hold the ZON1 button until the status indicator starts flashing, then release the button.
• The device is now in network configuration mode.

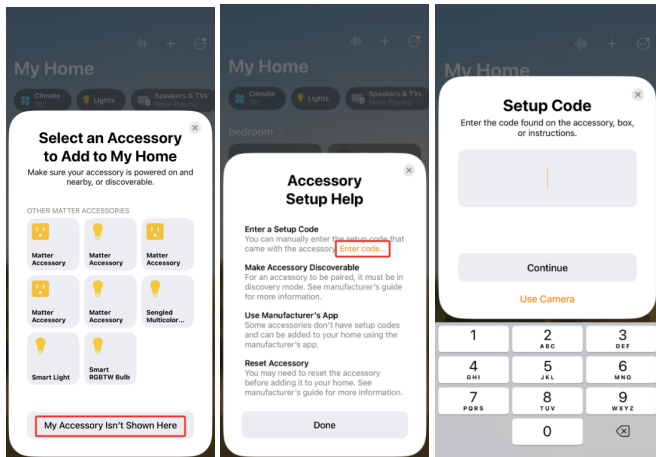Step 3: Add the Device in the Apple Home App

a.Open the **Home App**.Tap "+" on the home page.

b.Select "**Add or Scan Accessory**".

c.Follow the on-screen instructions to scan the **QR code** or manually enter the **pairing code**.

If you want to enter the **pairing code** manually, tap "**More options**..." → "**My Accessory Isn't Shown Here**" → "**Enter Code**..." to input the pairing code manually.
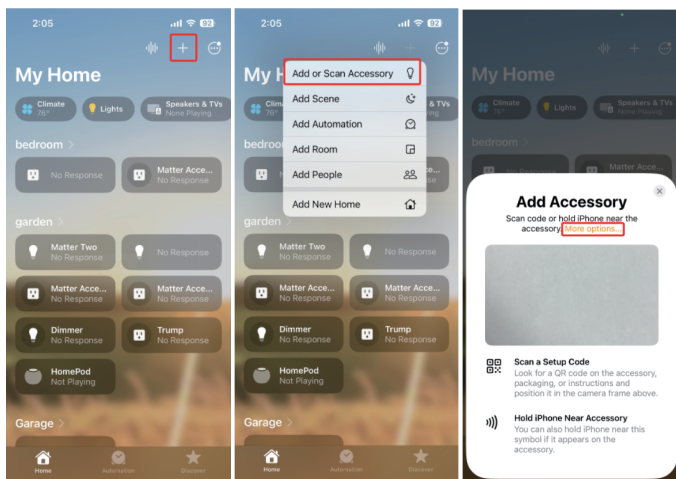
d. Once the device is successfully added, return to the Device List. (Refer to the figure below.)

Step 4: Name Your Device & Start Using It
• Rename the three designated areas of your device as desired.
• Your device is now ready for use!

## 4. Add to SmartThings via Matter

Step 1: Check Compatibility
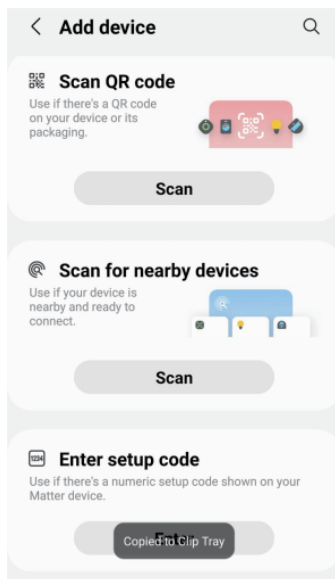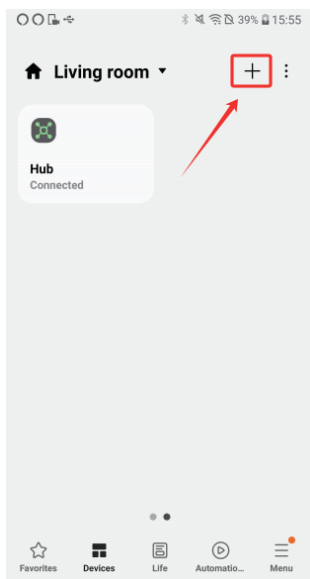Ensure your setup meets the following requirements:
•SmartThings App:
        Android: Version 1.8.01.22 or later
        iOS: Version 1.7.02.16 or later
•Matter-supported SmartThings Controllers:
        SmartThings Station
        SmartThings Hub v3
        SmartThings Hub v2

Step 2: Put the Device into Pairing Mode

 • Press and hold the ZON1 button until the status indicator starts flashing, then release the button.
 • The device is now in network configuration mode.

Step 3: Add the Device in the SmartThings App

a.Open the SmartThings App.Tap "+" on the home page.
b.Select "Scan QR Code" or "Enter Setup Code" when prompted.
c.Follow the on-screen instructions to scan the QR code or manually enter the pairing code. (Refer to the figure below.)

Step 4: Name Your Device & Start Using It

- Rename the three designated areas of your device as desired.
- Your device is now ready for use!

## Share Your Device with Others

Since the setup code can only be used to add the device to the first ecosystem, additional users must be invited to control the device through the connected app.

## How to Share Your Device:

1. Open the app where your device is already set up.
2. Go to the device settings page.
3. Select "Device Sharing" to generate a sharing pairing code.
4. On another platform's app, scan the sharing code or manually enter the device sharing code.
5. Follow the on-screen instructions to complete the setup.

## INSTRUCTIONS:

### 1.Prepare the Cable

Be careful when splitting the landscape cable. Do NOT expose the copper

cable. Remove 1/2 inch of insulation from both cables and twist the ends.



1/2in.(12.7mm)
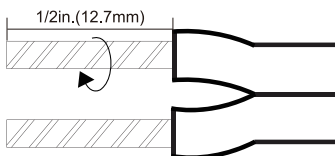
### 2.Connecting the cable to the Transformer

Lay the transformer on a flat, stable surface and use screwdriver to connect the stripped ends of the cable under the terminal clamping plate.

Tips:①Thread your cable through the white plastic loop to reduce its gravity.
② As the following image shows, there are 3 group wiring ports(COM/12V/14V for each group), you can choose any group of them to connect your cable. For each group, there are 2 terminal output ends- 12V/14V, select the appropriate terminal according to your lamp voltage.
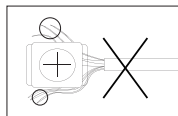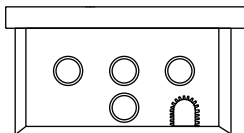
**Note:** Gently pull on the landscape
cable to verify if the connection is strong.



```
COM 12V 14V COM 12V 14V COM 12V 14V
```
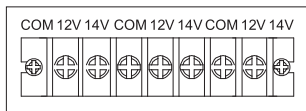
### 3.Place Your Fixtures and Route the cable
Lay your fixtures (not included) to your desired location. Be sure they do not
exceed the 200-watt rating of the transformer. Coil the rest of the cable after
connecting the last fixture.
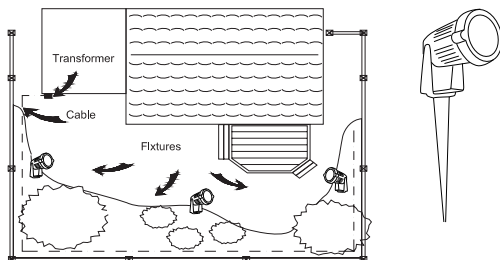


### 4.Attach Your Fixtures
Turn the transformer on. Use the cable connectors to attach your fixtures
with the cable. Then it will light up.

### 5.Mount the Transformer
Use the screw to mount the transformer directly on a wall. 12 inch to 48
inch (0.3 m to 1.2 m) high from the ground would be suggested.

12in. to 48in. (0.3m to 1.2m)
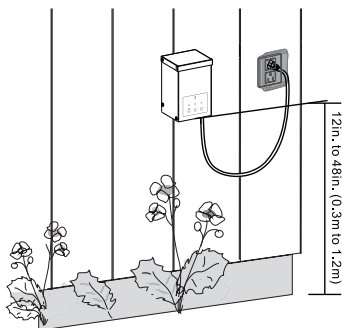
## CABLE SELECTION CHART

| 12 VOLT TAP | Cable Length | | |
|---|---|---|---|
| Total Fixture Wattage | 0-50 feet | 51-100 feet | 100-150 feet |
| 0-60 Watts | 16 AWG | 16 AWG | 14 AWG |
| 61-120 Watts | 16 AWG | 14 AWG | 12 AWG |
| 121-180 Watts | 14 AWG | 12 AWG | Not Recommended |
| 181-240 Watts | 14 AWG | 12 AWG | Not Recommended |
| 241-300 Watts | 12 AWG | Not Recommended | Not Recommended |

| 14 VOLT TAP | Cable Length | | |
|---|---|---|---|
| Total Fixture Wattage | 0-50 feet | 51-100 feet | 100-150 feet |
| 0-60 Watts | 16 AWG¹ | 16 AWG | 16 AWG |
| 61-120 Watts | 16 AWG¹ | 16 AWG | 12 AWG |
| 121-180 Watts | 14 AWG¹ | 14 AWG | 12 AWG |
| 181-240 Watts | 14 AWG¹ | 14 AWG | 12 AWG |
| 241-300 Watts | 12 AWG¹ | 12 AWG | Not Recommended |

AWG[1] Not recommended for Halogen Landscape.

NOTE: This data is provided as a general guideline.Actual performance aill depend on the installation layout,the fixtures, and the condition of the cable. If the wire diameter you use is thinner than the wire diameter recommended in the table, it may cause the flickering of the end lamps.

## Operation

The following section outlines most of the features supported by Matter-compatible Apps. These actions/features can be used with the specific Matter admin which the device was set up with. Please refer to the specific App for more details.
1.On / Off
The Transformer can be controlled through a variety of means:
• Using a voice command via one of the Matter supported controllers like Amazon Echo or Google home or Apple hub.
• Matter-compatible apps like Alexa, Google Home, Apple Home etc.
• You can manually turn on or off each area using the buttons for the three zones.

## 2. Scheduling

By creating routines in the Alexa app, automate your daily schedule to have transformer turn on or off every day, or make it look like you're home when you're not. You can adjust the lights individually by 3 zones, or group multiple devices together to synchronize the lighting for the whole room, and control them anytime, anywhere. You can also create schedules with other Matter-supported apps.

## TROUBLESHOOTING

Refer to the following and you can resolve most setup issues.
1. Please enable IPv6 Internet connection, please contact our friendly customer service representative for assistance.
2. Ensure your phone and Matter hub are both connected to a stable 2.4GHz Wi-Fi network, and that it has internet access during the setup process.
3. Restart your smartphone and clear the cache of the Smart Home app.
4. Make sure the firmware of your Matter hub(or called Matter controller which is required for providing ecosystem that could be paired with Matter-certified device.) and Smart Home app is updated to support Matter.
5. Power cycle the Matter-enabled device.
6. Matter setup mode is active for 15 minutes after the device is powered on, if this time period has expired, you will need to power cycle the matterenabled device to restart the clock.
7. If the Matter-enabled device has already been added to another ecosystem, you will need to get a new setup code for pairing.
If you fail to set up my connected Matter device with another smart home system, please refer to the following troubleshooting steps:
(1) If your Matter-enabled device does not show up or the pairing code cannot be created on the app where pairing has been completed. Please reboot your Matter-certified device.
(2) Don't create pairing codes in apps of multiple smart home systems in a row. If the first created pairing code is not used or has not expired, the subsequently created codes are invalid.
(3) Make Sure to complete the setup process before the matter code expires: Notes:

In Google Home, the code will expire 3 minutes after it is generated.
In Apple Home, the code will expire 5 minutes after it is generated.
In Alexa, the code will expire 15 minutes after it is generated.
(4) Please ensure that the pairing code page of the app remains open when you enter the numeric code (or scan the QR code) for your Matter device to pair with another app.
(5) If you still cannot connect your device, reboot your Matter Hub and Smart Device, clear the cache of the apps, and restart your phone. Then try to set up the device normally

## Specifications:

- Input Voltage: 120VAC, 60Hz
- Output: 12V/14V AC
- Max Power Rating: 300W

## FCC STATEMENT:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:
1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.
**Note:**This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

This equipment complies with FCC/ISED radiation exposure limits set

forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## One Year Limited Warranty

Supported by our professional R&D team and QC team, we provide One Year Warranty for materials and workmanship from the purchase date. Please note that the warranty does not cover damage caused by personal misuse or improper installation.
Please attach your Order ID and Name so that our dedicated customer service team can help you better.

Made in China