

**Revision**

**C**

# **SMARTPOWER 50**

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**Bluetooth Power Supply Control App**

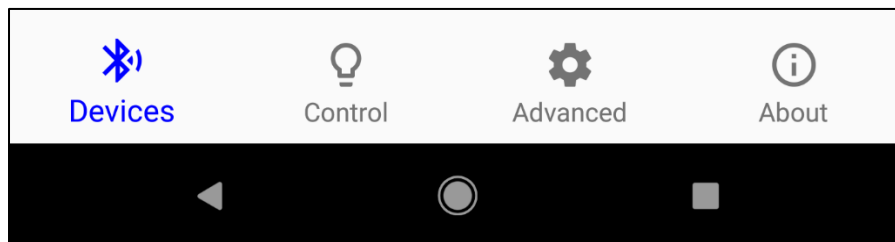
# **Android User Guide**

# App Navigation

## Navigation tabs

The app has 4 different navigation tabs located at the bottom of the app.

They include Devices, Control, Advanced, and About tabs. Each of the tabs are labeled with their respective names. The tab that is colored blue is the currently selected tab.



## Changing tabs

Clicking on the different tabs will change the tab that is displayed.

The Control and Advanced tabs can only be clicked on if you are currently connected to a SMARTPOWER 50 power supply. If you click on either of those tabs when you are not connected, you will be brought back to the Devices tab and the app will perform a 2 second scan for SMARTPOWER 50 power supplies in the area.



## Closing the app

Pressing the Back button located at the bottom of the screen twice within 2 seconds will close the app completely and remove it from the recent apps list.

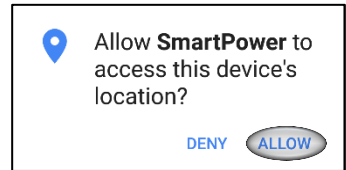
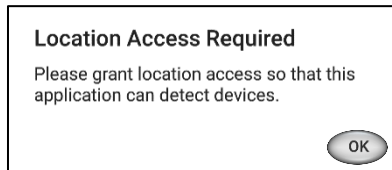
# Devices Tab

## Initial App Start-up

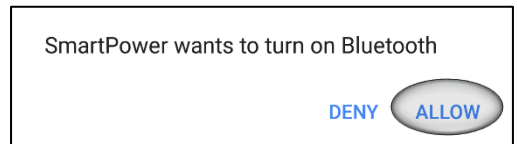
When the app is opened, it will check to make sure that the following requirements necessary to run the app are met:

Does the device support Bluetooth Low Energy (BLE)?

Location access allowed? This is required by Android for proper Bluetooth operation. The first time the app is opened, you will be prompted that Location Access is required. Click OK. Then Android will ask you if you want to allow SmartPower 50 to access this device's location. Click allow.

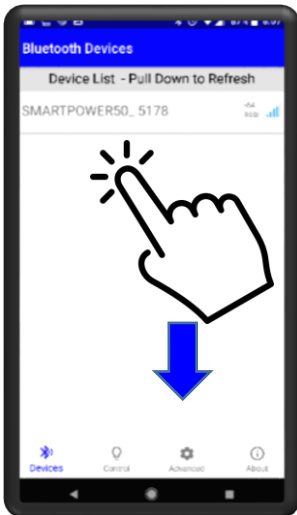


Is Bluetooth turned on? The app requires that Bluetooth be turned on to operate. Click allow to turn on Bluetooth. Clicking Deny will close the app.

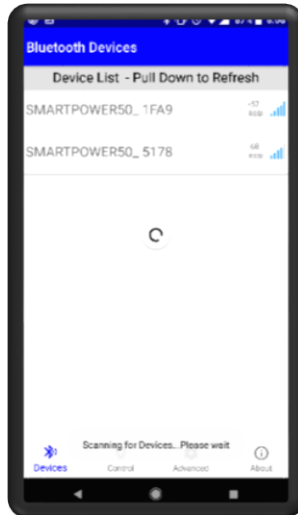


## Scanning for devices

Once the app is opened and all the above requirements are met, the app will begin scanning for devices that are in range. This scan will last 2 seconds and then stop scanning displaying a list of found SMARTPOWER 50 power supplies.



Click and Pull down on the screen. Then let go to refresh the list.

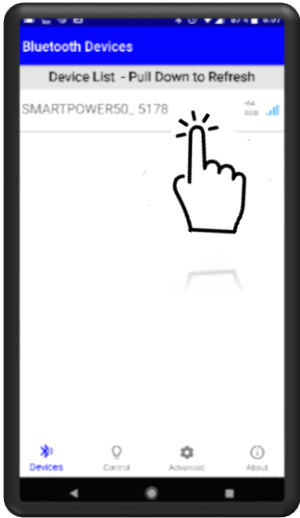


The app will re-scan and display a new list of found devices.

Each SMARTPOWER 50 device will have a unique name. The name will be SMARTPOWER50\_XXXX. The XXXX is a unique alpha numeric code unique to most power supplies.

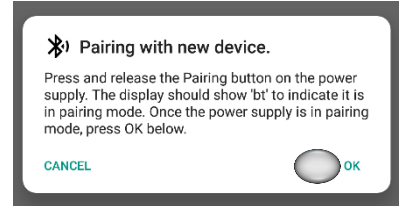
To re-scan or refresh the list of available nearby SMARTPOWER 50 devices, pull down on the middle of the screen and the app will re-scan for another 2 seconds.

## Connecting to devices

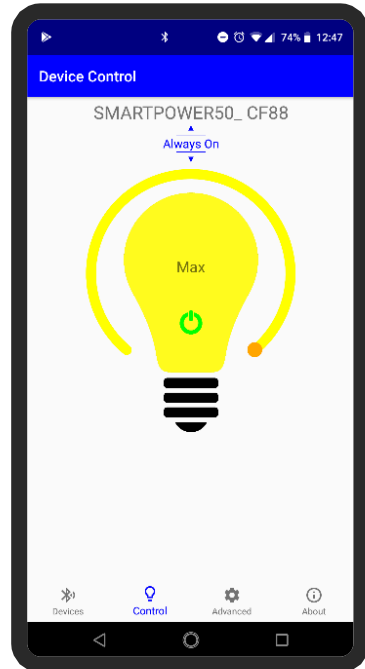
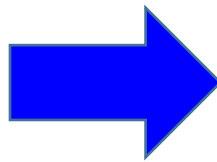
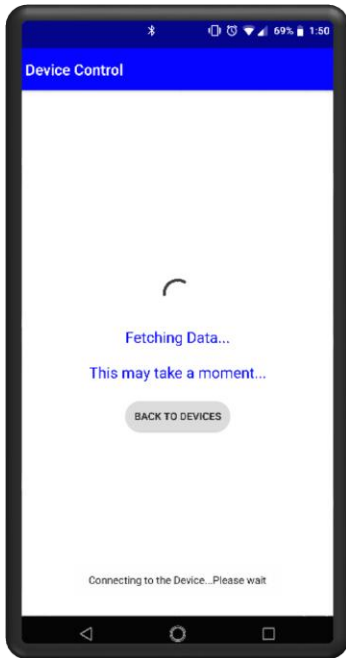


Once the desired SMARTPOWER 50 device appears on the screen, it becomes available for Bluetooth connection. To connect to the SMARTPOWER 50 device, click on the banner containing the SMARTPOWER 50 device's unique ID.

Upon clicking the banner, a text box will pop up, prompting the user to press and release the 'Pair' button on the SMARTPOWER 50 power supply. Follow the prompt, and when the power supply's display reads 'bt', press 'OK' on the text box.



A screen will pop up stating, 'Fetching Data'. After a few moments, the app should then navigate to the 'Control' tab, and the phone is connected to the SMARTPOWER 50 device.



## Control Tab

While connected to a SMARTPOWER 50 power supply, the options nested in the ‘Control’ tab allow the user to apply their desired settings to the power supply via Bluetooth. To open the ‘Control’ tab, click on the ‘Control’ icon on the banner at the bottom of the screen.

### Power Icon

Clicking the **power icon** in the center of the lightbulb turns the power supply’s power **ON** or **OFF**. If the icon is **Green**, the power is **ON**. If the icon is **Red**, the power is **OFF**.

### Mode Setting

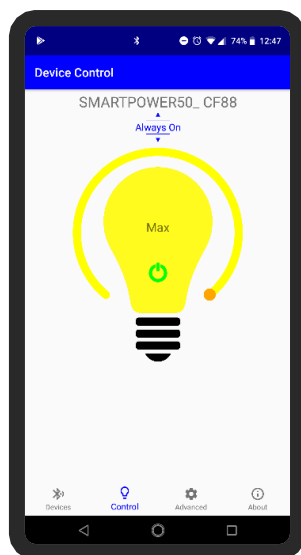
The **mode setting** is located above the lightbulb, underneath the device name. The default setting is ‘Always On’. There are also settings ‘Dusk to Dawn’, and ‘1 Hour’ to ‘8 Hours’. The hour settings turn the power supply **ON** for the selected amount of time after the photocell senses darkness below the threshold (see ‘Advanced Tab’ for steps to set photocell threshold).

### Brightness Percentage

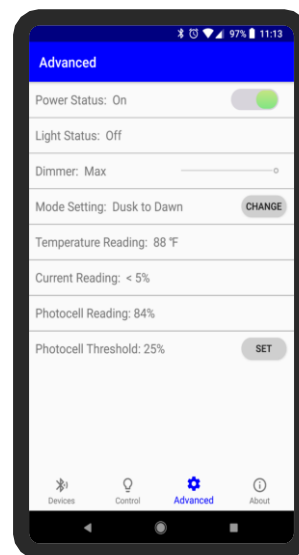
The **brightness percentage** is displayed on the lightbulb, above the power icon. It will display ‘Max’ if the power supply is set to full brightness, and ‘Min’ if it is set to full dimness.

### Dimmer Slider

The **dimmer slider** arcs around the lightbulb. It controls the dimmer percentage. Sliding the slider counter-clockwise results in a lower brightness percentage, and dimmer lights. Sliding the slider clockwise results in a higher brightness percentage, and brighter lights. The brightness percentage display will give live feedback as the slider is moved to indicate the brightness percentage the user is currently choosing. (The dimmer slider will only function if the power supply is **ON**, with a **green** power icon on the lightbulb).



‘Control’ Tab



‘Advanced’ Tab

## Advanced Tab

The 'Advanced' tab permits the user to view the status of their SMARTPOWER 50 device, and customize the photocell threshold to suit their unique environment.

### Power Status

The 'Power Status' slider turns the power supply **ON** or **OFF**. A **green** indicator will display when the device is **ON**, and a **red** indicator will display when the device is **OFF**.

### Light Status

The 'Light Status' banner indicates whether the lights connected to the device are ON or OFF.

### Dimmer

The 'Dimmer' slider controls the brightness of the lights. Sliding the slider to the left results in a lower brightness percentage, and dimmer lights. Sliding the slider to the right results in a higher brightness percentage, and brighter lights. The left side of the banner gives live feedback as the slider is moved, to indicate the brightness percentage the user is currently choosing. (The dimmer slider will only function if the power supply is **ON**).

### Mode Setting

The 'Mode Setting' banner allows the user to change the mode that the power supply operates under. It allows the user to select modes ranging from 'Always On', 'Dusk to Dawn', and between 1 and 8 hours. The hour settings will turn the power supply **ON** for the selected amount of time after the photocell senses a light level below the user-set threshold.

### Temperature Reading

The 'Temperature Reading' banner displays the current temperature of the inside of the power supply. The temperature reading is obsolete to the everyday use of the SMARTPOWER 50 device, and is for diagnostic use only.

### Current Reading

The 'Current Reading' banner provides a percentage estimate of the amount of power that the connected lights are drawing from the power supply. The current reading is obsolete to the everyday use of the SMARTPOWER 50 device, and is for diagnostic use only.

### Photocell Reading

The 'Photocell Reading' banner provides a percentage amount of the light the photocell currently senses.

### Photocell Threshold

The 'Photocell Threshold' banner allows the user to set a custom threshold under which the power supply will operate. This operation is only applicable when the SMARTPOWER 50 device is switched to the 'Dusk to Dawn' mode setting. In the 'Dusk to Dawn' mode, a photocell reading **below** the photocell threshold will result in the lights turning ON, and a photocell reading **above** the threshold will result in the lights turning OFF.

## Common Issues and Troubleshooting

In certain cases, the app may become unresponsive. To solve this issue, try:

- Restarting App
- Restarting Phone
- Reboot Transformer (Unplug for 20 seconds)

If the issue persists after attempting the above solutions, the user should resort to a factory reset of the SMARTPOWER 50 transformer. **WARNING: All settings and paired devices will be lost and reset to defaults during a factory reset. The wireless remote may need to be reprogrammed following the reset. To complete a factory reset of the device:**

- Unplug the transformer from its power source for 20 seconds.
- Simultaneously hold in the 'Power' button on the transformer and plug it in to a power source.
- The display should read "Ao".
- Follow the instructions in the "Devices Tab" section of the User Guide to pair with the transformer again.

Another common issue users may face is the inability to change the dimming setting on the transformer. Dimming only works when the power supply is **ON**. (see 'Advanced Tab'- 'Light Status')

An uncommon, yet possible issue occurs when the transformer is unable to pair with a device via Bluetooth. To remedy this issue, the user must enter the 'Settings' list on their phone (or other device being used to pair with the transformer), select 'Bluetooth', and **unpair** the SMARTPOWER 50 device, removing from the list of paired devices. The user should then be able to re-open the SMARTPOWER 50 application, and use the steps provided under 'Devices Tab' to successfully pair with the transformer.

