

EmPower Reader User Manual



1. Features

- **Product Authentication**

Verify products that support EmPower anti-counterfeiting verification.

- **Output Power Reading/Writing**

Reading/Writing power curve over a puff duration (10 points).

Convenient Operation.

- **Battery Status**

Provide information about the battery level of the device & product.

- **User-Friendly Interface**

There are 6 buttons in total, Up, Down, Left, Right, ESC, and OK.

2.5 inch 240*320 resolution full color screen display.

Prompt box for notification.

- **Long Battery Life**

Support bright screen for 30 hours (embedded with a 3000mAh lithium battery).

Saving power consumption in the screen-off state (current is less than 2uA [Typ]).

Type-C Charging Port

For Micro-USB Products

For Type-C Products

Product Authentication Status

EmPower Reader's Battery Level

Power Curve

Connected Product's Battery Level

Output Power Value

ESC Button to Left Align/ Power Off

OK Button to Save / Read

Operation Panel



2. How to Use EmPower Reader

2.1. Power On/ Off

Power On:

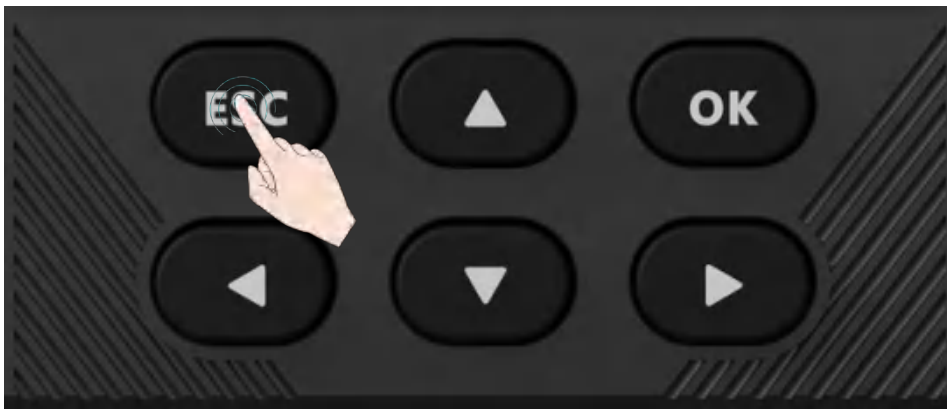
Press any button to turn it on.

Once the device is on, it will display the Kushcart LOGO for about 3 seconds and jump to the reading/writing interface.



Power Off:

Hold the ESC button for about 10 seconds and it will display a countdown to power off.



Note:

The device will power on automatically when power is connected for the first time. It will shut down automatically after 10 minutes of inactivity.

2.2. Product Authentication

Once the product is connected, it starts to verify the product and the result will be displayed in the status bar on the top of the screen. If the product is genuine, it will show “Authentic” in green, otherwise it will show “Counterfeit” in red if the product is a fake one. The product battery status will be displayed on the right side of the status bar as well.



Note:

Please make sure the connected product supports EmPower anti-counterfeiting verification.

If the connected product does not support EmPower anti-counterfeiting verification, there will be two situations:

1. The product will be recognized as a counterfeit one.
2. Not recognized and display as NC/Counterfeit.

The situations above may occur when it can not detect the internal circuit of the product, which includes products not designed by Kushcart, products that do not support EmPower anti-counterfeiting verification and other products with complex and different circuit designs

2.3. Output Power Reading/Writing

There are 10 output powers (10 points) from left to right, and each (point) last for one-tenth of a puff duration. It enables the user to customize different power levels (wattage) in a fixed point, providing a power curve over a puff duration (time). Increase or decrease the wattage by using the Up/Down/Left/Right buttons.

Writing: Click the OK button to save the output power value you want, it will show the “Writing” notification, and it will show “Succeed” when the setting is complete. If it shows “Fail”, please check whether the product is in bad contact. If it prompts "This Model not supported.", it may be a product for a mass production and value reset is not supported.



Reading: After the product is connected and verified, hold the OK button for about 5 seconds, and then there will be a countdown to “Reading” the output power value. It will show “Completed” when it is finished. If it shows “Reading Fail”, please check whether the product is in bad contact. If it prompts “Unsupported mode. You Need Write First.”, it means there is not any record of this product in the device before. In this case, you need to use EmPower reader to set and save the output power value of the product at least once.



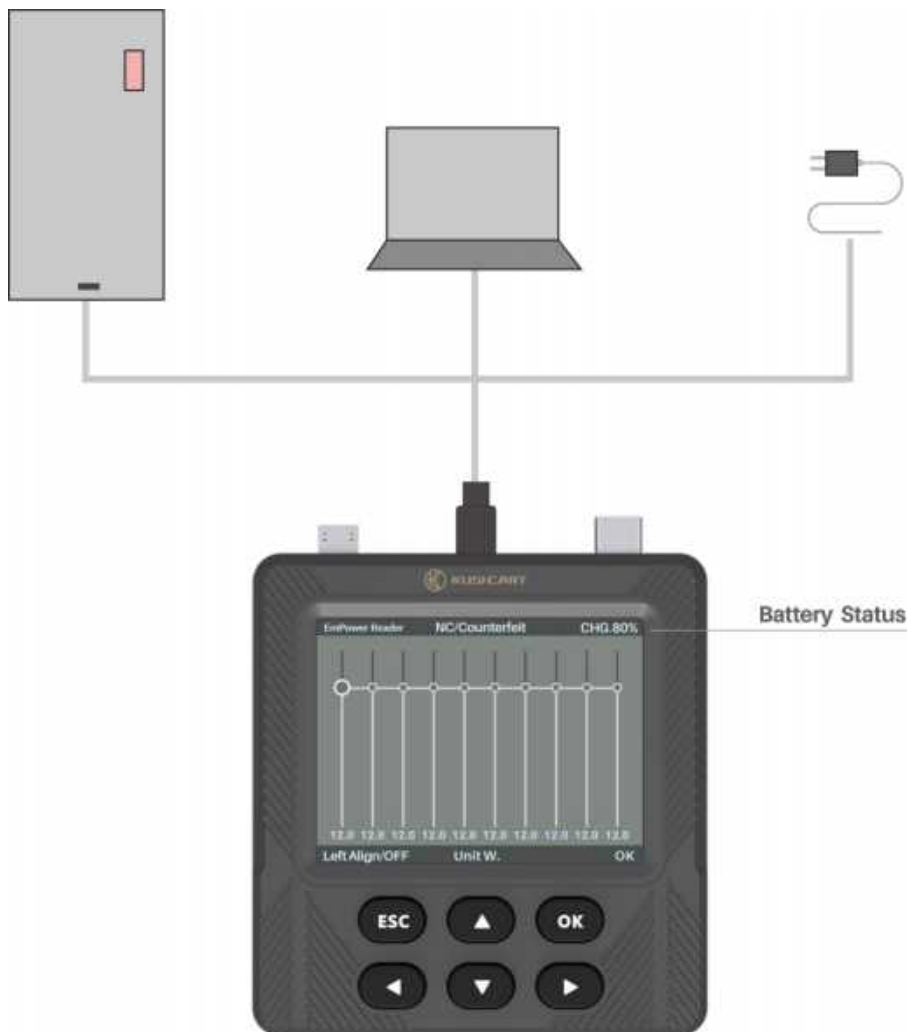
hold the
OK button
5s

Note:
Please do not shake the device or product during the Reading/Writing process.

2.4. Charging and Battery Status

Device's battery percentage will show on the right side of the status bar on the top.

Low battery notification alerts when the battery level is low. When it is lower than 3%, it will automatically shut down and you need to charge the device as soon as possible.



Please use a Type-C charging cable to connect the power source and the device for charging.

When the device is charging, "CHG" will be displayed on the right side of the status bar and it will show "F" when fully charged.

3. Notifications

3.1. The Influence of Product' s Battery Level

When the battery level of the connected product is low, it may be unable to provide sufficient power, which is considered necessary to ensure the precision of the output power value and the testing experience.

It is recommended to adjust the output power value with 10% low product battery level to ensure a consistency effect no matter under any battery level.

3.2. Reading the Output Power of the Product

When you find the vaping experience of the product is great and you want to get the wattage values you set on it. You can connect the product to the device again to read the output power value. Please make sure you don't trigger the Writing function by clicking the OK button, otherwise the output power values of the product will be re-wrote and replaced.