

1.0 Product Overview

The Functional Cell Demo Kit (FCDK) was designed to demonstrate of how the Maxeon Cells can produce energy even under shading or with cracks.

The FCDK lets the existing cell breaking kit (fig. 1) and the 4-cell demo (fig. 2) work together creating a powerful message.

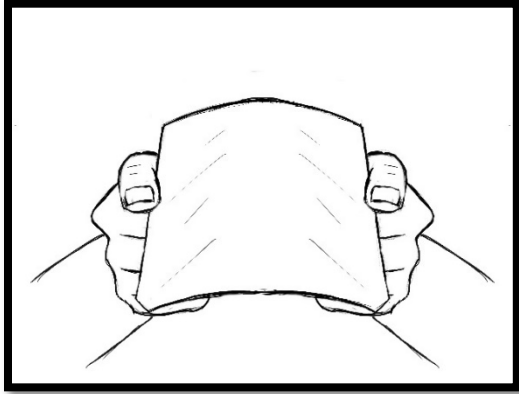


Figure 1. Cell Breaking Kit

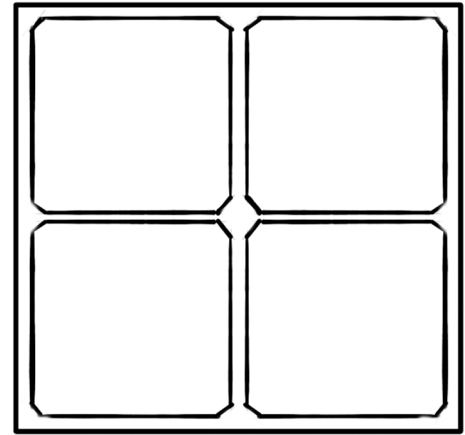


Figure 2. 4 Cell Demo Kit

Both demos have been used to show the reliability of the Maxeon Cells but cannot demonstrate the Cells can produce energy under real conditions, so the message could sound incomplete.

The new demo, the FCDK, can show how the Cells are interconnected, and it can be used to show a Cell producing energy, even if the Cell has cracks.

After using the Cell Breaking kit, you only need to connect the Cell, possibly with cracks to the FCDK and expose the Demo to the sunlight to see how an LED turns on.

2.0 Product Description

What is the content of the FCDK?

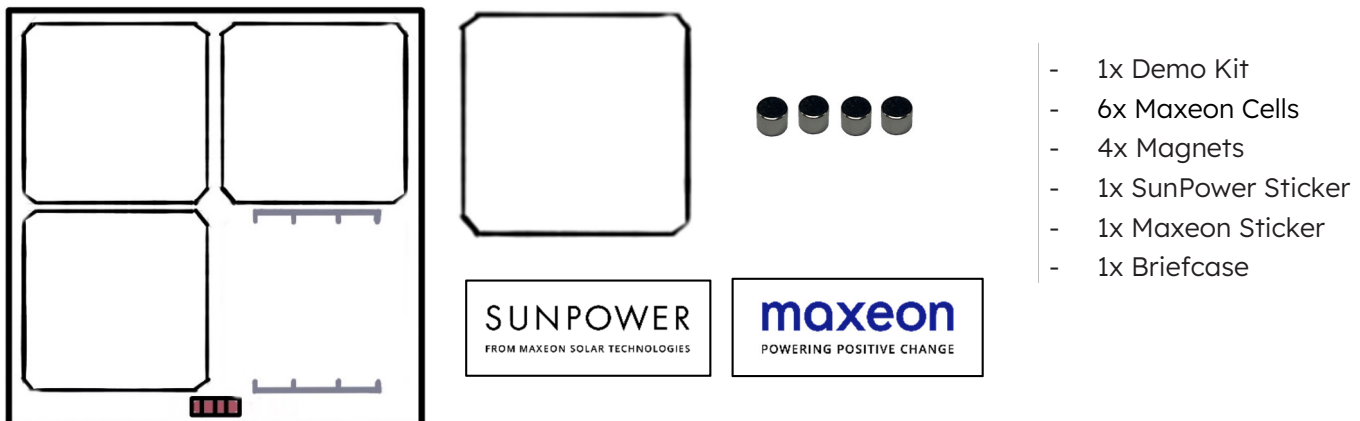


Figure 3. Functional Cell Demo Kit

3.0 Operation

How to use it?

1. Make the Breaking kit demonstration as usual, it does not matter if the Maxeon cell breaks during this.

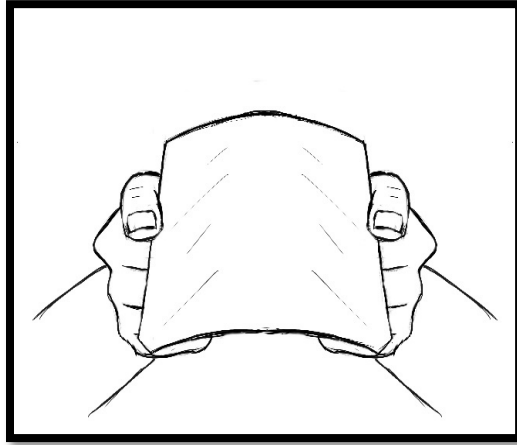


Figure 4. Cell Breaking Kit

2. Locate the Cell positive side.

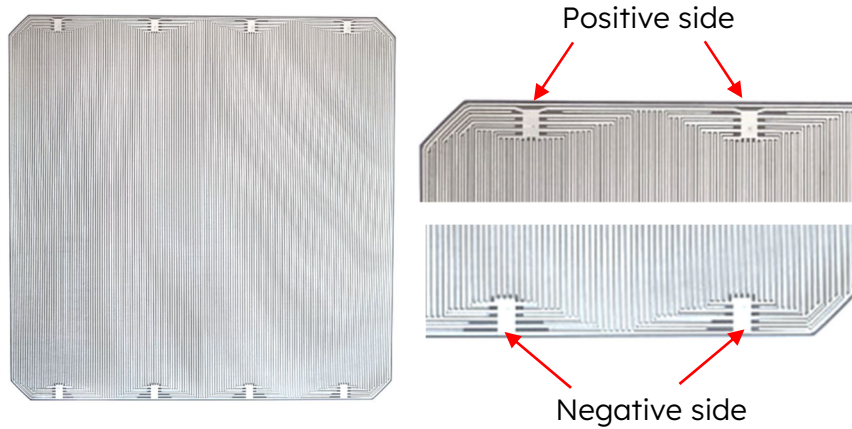


Figure 5. Cell's poles.

3. Set the Cell over the empty spot of the Demo kit, the Cell's positive side must be in the top connector. Use the magnets to get the Cell fixed.

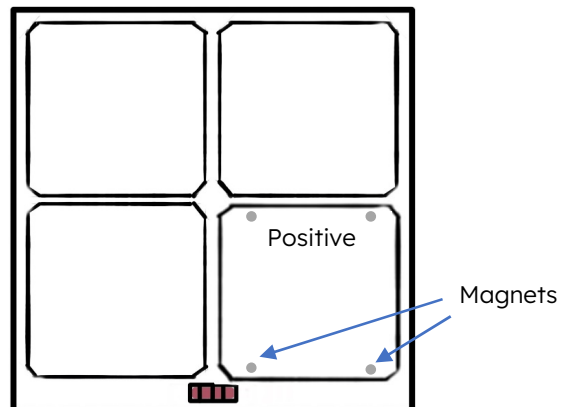


Figure 6. Set the cell and the magnets in the demo.

4. Expose the Demo kit to the sunlight, the LED will turn on. You produce a shading in one of the Cells or make a partial shading in two Cells. If the Maxeon Cell is broken, you can shade a cell to see that even with it the LED still works.

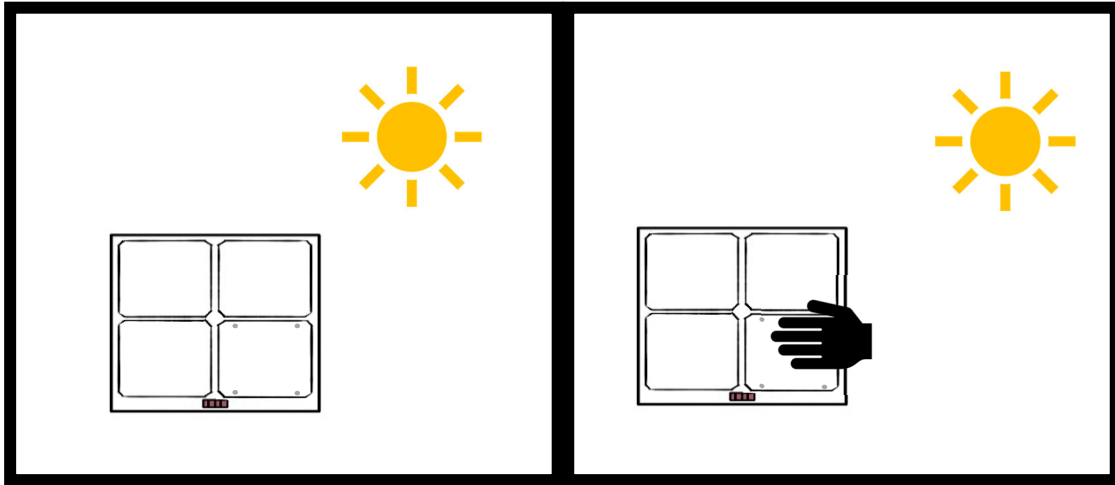


Figure 7. FCDK exposed to the sunlight and with a cell shaded



For the latest user manual, please refer to:
<https://www.sunpower.maxeon.com/int/FCDK>
or simply scan the QR code