



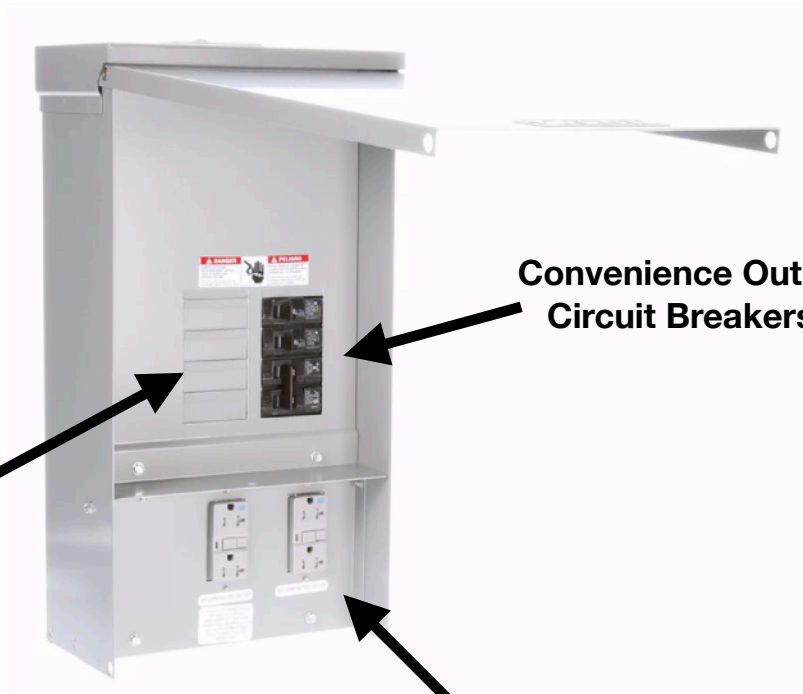
## Protected Load Panel Overview

By default, Kumukit battery energy storage solutions that have backup power capabilities include a protected loads panel as part of our standard installation. These protected panels provide limited backup power to dedicated electrical outlets located inside the panel. Many homeowners simply plug extension cords in the convenience outlets within the panel for emergency power during a grid outage, similar to a backup generator. **These protected load panels will not supply power to the entire home during a grid outage.**

There is also an option to hard wire limited emergency circuits from within the home to this protected load panel for an additional fee. Every homes electrical layout is different, so we will need to estimate this amount on a case-by-case basis.

**NOTE: Protected load panels will not supply power to the entire home during a grid outage.**

**Space for hard wired Backup loads (optional)**



**Convenience Outlet Circuit Breakers**

**110v Convenience Outlets**

In the case of a power outage, the battery energy storage system will automatically switch into off-grid mode and supply power to the protected loads panel. The amount of time that the battery will provide emergency power will depend on the amount of power that is drawn and the state-of-charge of the battery at the time of the power outage.

If your battery has an adequate amount of battery capacity but you do not have power to the items connected to the critical load panel, please check the following items.

- 1) Check to see if any of the circuit breakers in the protected loads panels are in the on position.
- 2) Reset any of the circuit breakers in the protected loads panels that may have tripped.
- 3) Check to see if the GFCI buttons on the convenience outlet need to be reset.

Before electricity can be restored, the GFCI must be reset. FIRST ensure that it is safe to do so. Turn off or unplug the devices that are plugged into the circuit. If you are not sure, unplug all appliances and devices especially computers. Make certain no dangerous condition exists before restoring power.

Press the “TEST” button. If it does not click when you press in, then it was tripped.

Next press the “RESET” button until you feel it click.

Power to the circuit should be restored at this point.

To restore power to the GFCI outlet after you have determined it is functioning properly; Press the "RESET". You will feel it “click” and power will be restored to the outlet.

