**STEP 1 SOLAR PANEL WIRING & CONFIGURATION**
- Most common issue is solar panels not wired properly.
- Check that they are connected in proper series/parallel configuration otherwise it will not charge the system properly.
- This is all about checking for proper open circuit voltage and amperage.

**STEP 2 BATTERY BANK WIRING/CONNECTIONS/ CONFIGURATION**
- Battery bank connections need to be tight and secure.
- Voltage configuration must match the inverter voltage (ie. 48V & 48V)
- Check state of charge with voltmeter to ensure enough power to trigger the inverter/system to power on.

**STEP 3 CHARGE CONTROLLER SETTINGS**
Alarm codes and faults will happen for 3 main reasons:
1. Solar panels are not wired properly (refer to #1)
2. You’re not getting enough solar power to trigger a charge
3. Charge controller is not set to the proper setting for the battery chemistry

Ensure these 3 are checked and set properly in order to properly “protect” and charge your battery bank.

**STEP 4 INVERTER SETTINGS**
Potentially the most important thing to check.
Ensure your inverter is set to all of the proper parameters for your specific battery bank.
This will ensure you do not completely drain your batteries.
All inverter settings can be found on the website, under resources > manuals > inverters

**STEP 5 BATTERY BANK IS TOTALLY DEAD**
Your battery bank will die completely if you
1. Do not have proper low voltage cut off set
2. You are running too many things
3. Your solar panels/AC charger are not hooked up properly

*You will need to “wake up” a dead battery bank using an AC wall charger (solar panels will NOT wake up a dead battery bank)*

*Always disconnect the batteries and charge using a matching voltage charger.*

**STEP 6 INVERTER THROWING FAULT CODES**
Your inverter will throw fault codes for 3 main reasons:
1. Too high of a continuous load or surge
2. Not reading battery bank properly (check connections)
3. Power input settings are not set properly
4. Incorrect settings or connections - ie. Paralleling / Battery Chemistry

*You will need to check the manual for the fault code you are getting and it will give you the exact next steps / things to check.*

*Fault codes are common when initially setting up your solar system.*

**STEP 7 SOMETHING ELSE? STILL NOT WORKING?!**
If you have checked all of the following, please head over to the website and go to:
Support Hub > Technical Support > and submit the form.
In order to deliver proper virtual support, we will need to see 5-5 images of your system along with a 30 second video showing and explaining the problem.

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