



# Battery disconnect use with solar panels

Can solar panels be disconnected without damaging any components?

Yes, solar panels can be disconnected without damaging any components. However you need to keep the following in mind before unplugging the panels. Do not unplug the solar panels during daytime. Wait until it is evening just to be safe. The panels will always have power when the sun is out, so wait for nightfall to disconnect the system.

How do I disconnect battery power?

To disconnect battery power, first turn off the breaker or switch for the solar array. Then, turn off the breaker from the +charger output to the +battery bank bus. To reconnect, reverse the process: turn on the breaker from the +charger output to the +battery bank bus first, then turn on the breaker or switch for the solar array.

Do I need a main battery disconnect?

Solar input disconnect is very useful for maintenance but a main battery disconnect does not seem very useful. Could just disconnect negative terminal of battery for those instances, as most people do with starter batteries for internal combustion engines. Disconnect negative, then work on the car. I never see people use a main disconnect there.

Will reversing the +/- leads hurt my solar panels?

As long as you do not reverse the +/- leads to the solar panels, you will not hurt anything. Reversing the leads can damage the panels. The (usual) correct way to disconnect battery power for the panels + charge controller...

How do I reconnect my solar panels to the battery?

To reconnect your solar panels to the battery, first turn on the + to the charge controller. Then, turn on the + to the solar array. Be aware that some charge controllers may get confused (risk of damage to the charge controller in rare cases) if you connect the solar panels (under the sun) before connecting the battery bank.

I normally do it at night when no power is coming into the panels but would like to do it during the day time. These are six volt batteries so when disconnected the panels are sending power to the charge controller but no where for the power ...



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