

LightHarvest Aspen and Bluetti AC200P Setup

Your new all-in-one power station comes with the unit itself, a selection of cables, and a warranty card to fill out. The two important cables in the box are the MC-4 adapter cable and the AC adapter cable. You may also have additional hardware shipped separately such as a DC output cable or Victron Phoenix Inverter.

General Use and Features

1. Press the power button, it should illuminate green when the unit is on.
2. DC and AC can be switched on and off individually via the buttons at the bottom of the touchscreen.
3. The blue circle in the center of the touchscreen is your battery capacity
4. The 4 small circles around it show current flow, both from sources and to loads. There are five small dots next to each one that light up to show current is flowing.
 - Top left is Solar Input, which shows charging from your solar panels.
 - Top right is AC Adapter Input, which shows charging from your alternator or grid source.
 - Bottom left is DC Load, which shows the combined consumption of your DC equipment.
 - Bottom right is AC Load, which shows the combined consumption of your AC equipment.
5. Verify that your unit's DC Input Source is set to "PV" in the settings menu and change as needed. These units are capable of accepting direct input from your vehicle via the "Car" setting, but the rate is very limited and our method described below provides a much faster charge.

Connecting Solar to your Aspen or AC200P

1. If purchasing a panel with one of our power stations you should also be sold the appropriate cable for connecting to your solar panel(s) and a Cable Entry Box. This cable will have two plastic plugs on one end that will connect to the panel and two metal bits on the other end where you will attach the provided MC-4 plugs once the cable is run through the roof and entry box.
 - The MC-4 plugs cannot fit through the entry box so you will likely find it easiest to install the panel and wire before moving forward. Make sure to leave at least one plug disconnected from the panel until the wire is fully installed and the MC-4 plugs are attached inside the vehicle.
2. Your wire should come with the plastic MC-4 connectors in two small bags which specify the wire to attach them to. Simply slip the correct plug onto the metal bit until you hear/feel a click, then twist the base approximately two full rotations to tighten the plug. Looking at where the wire inserts into the plug you should see black triangles coming together over a white inner bit, you want the white to barely show but the black triangles should not be crumpled. This will ensure both

physical security and waterproofing. If properly installed the average individual should be able to pull on the plug with full strength without it coming off.

3. You should now have the end of your wire with plugs which mirror the solar panel's plugs, that will connect to the MC-4 adapter cable included in the power station's box. The MC-4 adapter has a yellow plug on the other end that will connect to a black cable with a large round plug, which will then connect to the Solar Input port on the bottom of the left face of the power station.

Connecting Alternator Charging to your Aspen or AC200P via the Victron Phoenix Inverter

1. If you've purchased the alternator charging option you should receive either a 500W or 800W Victron Phoenix Inverter based on which power station you have. You should also receive 20ft of wire, a handful of lugs, a breaker to protect the line, and the VE.Direct Smart Dongle. The included diagram will show roughly how to connect the inverter to your starting battery.
2. Once the inverter is connected, plug the Smart Dongle into the inverter and flip the Inverter's switch to the setting with two lines. This will give you Bluetooth control via the VictronConnect app, downloadable for free on all major app marketplaces.
3. Open the app and update the app as needed. You should then see "VE.Direct Smart" in the Device List, click on that and it will bring you to the Inverter's menu. You may need to enter a pin, the default is "000000" (six zeros). You may be given the option to change this pin, we suggest leaving it set to default. You may see warnings or alarms on the inverter's menu, disregard those for now.
4. Click the gear icon in the top right to enter the settings menu and make the following changes:
 - Set "Low Battery Shut Down" to 13.1V
 - Set "Low Battery Restart and Alarm" to 13.3V
 - Set "Charge Detect" to 13.8V
5. Plug the power station's AC Adapter into the inverter and verify that charging only occurs when the vehicle's engine is on.
6. You may see warnings in the inverter's menu from time to time, these will usually be a low-voltage alarm triggered by the engine turning off and are generally safe to disregard provided the unit is operating normally.