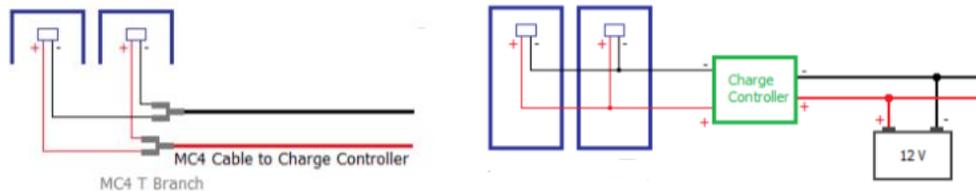




Grape Solar 200 Watt Off Grid Kit (GS-200-KIT) Installation Guide

For additional information about this kit visit grapesolar.com/manuals.html, or email info@grapesolar.com
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Basic Wiring Diagram



Step 1: Check your order to make sure that all parts are included. Please refer to pictures and quantities shown below.

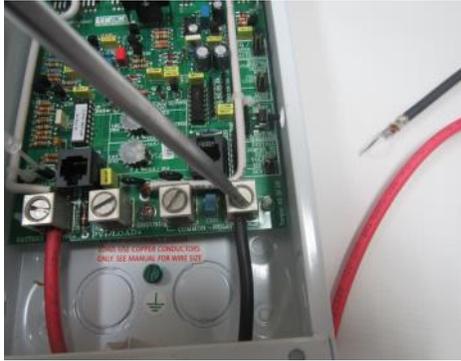


Step 2: If you are connecting the system during daylight, cover the panel with cardboard, cloth, or a similar option so that it does not output power. Place the panel so it is facing due south at approximately the same angle as your latitude, in full sun.

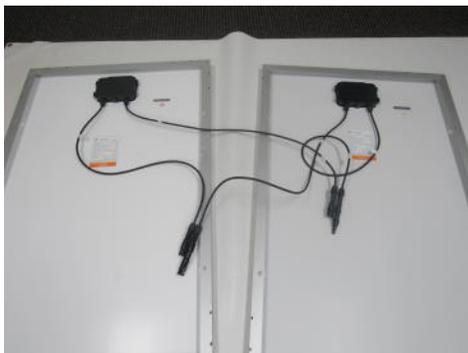
Step 3: Unscrew the top plate of the C35 charge controller. Mount it if desired (note that it must be in a NEMA-4 rated enclosure if it is outdoors). Use the 5-foot red & black cable pair to connect your positive and negative battery terminals to the “Battery Positive” (use red cable from the positive battery terminal) and “Common Negative” (use black cable from the negative battery terminal) inputs of the C35 charge controller.



Step 4: Make sure the screws are tightened to lock the cables in place.



Step 6: Connect the positive and negative outputs of both panels to the appropriate T-branch connector.



Step 8: Connect the bare wire end of the red cable to the "PV Positive" input of the C35, and the black cable end to the other "Common Negative" input (it does not matter which one).



Step 5: Attach the lug end of the red cable to the positive terminal on the battery and the bare end to the Battery + input on the charge controller. Attach the lug end of the black cable to the negative terminal on the battery and the bare end to the Battery - input on the charge controller.



Step 7: Connect the MC4 outputs of the T-branch connectors (or, if you are using MC4 extension cables, the MC4 output of those) to the 6" MC4-to-bare wire pair as shown below:



Step 9: Connect the red (positive) and black (negative) 5-foot cable from battery to inverter.



Step 10: Uncover the panel. As the day progresses, you should see an increasing number of consecutive green flashes, until the LED is solid green indicating that the charge controller is in float mode. At this point the battery can be used to provide power (turn the inverter on and plug your AC devices into it for power).