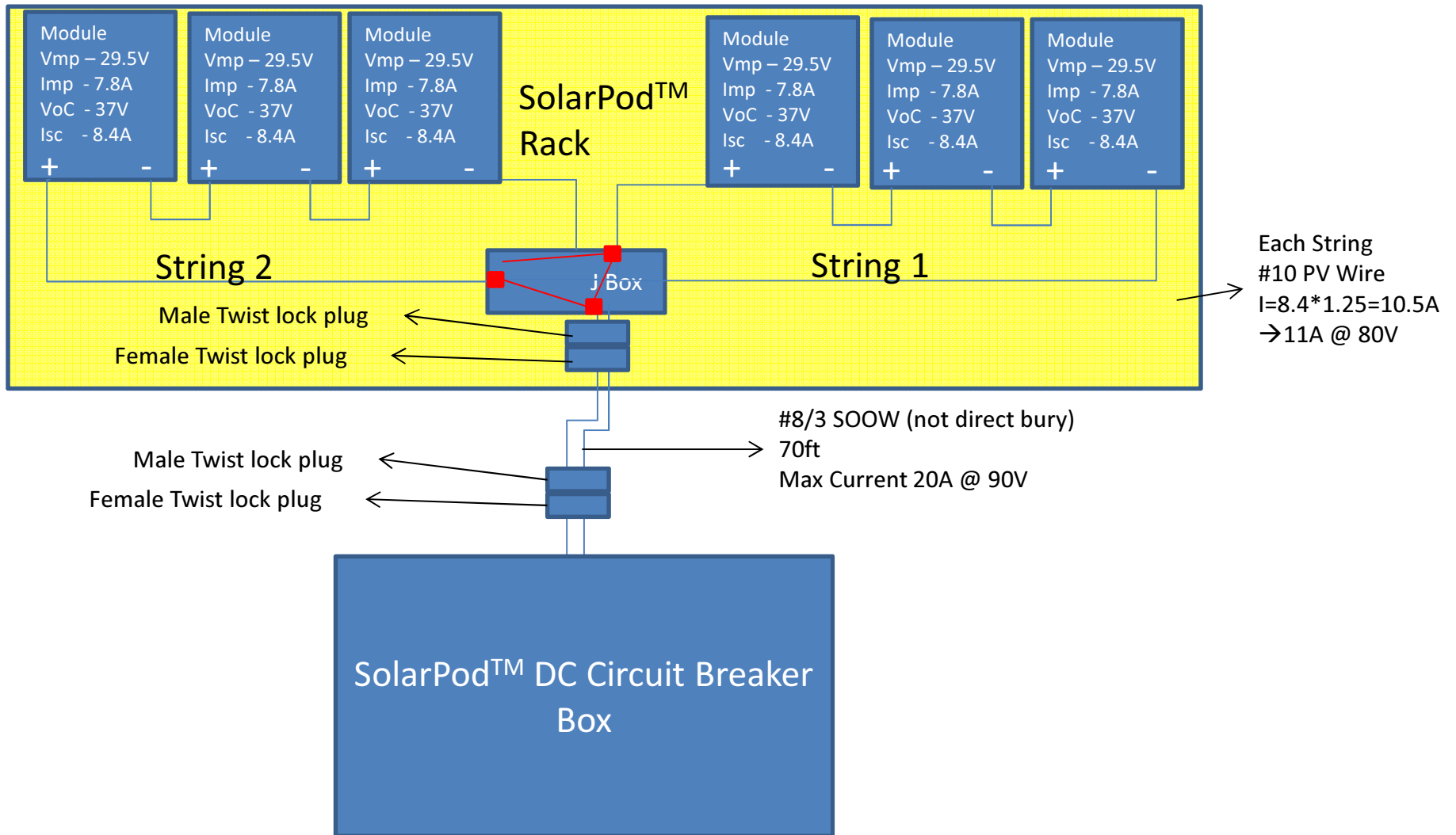
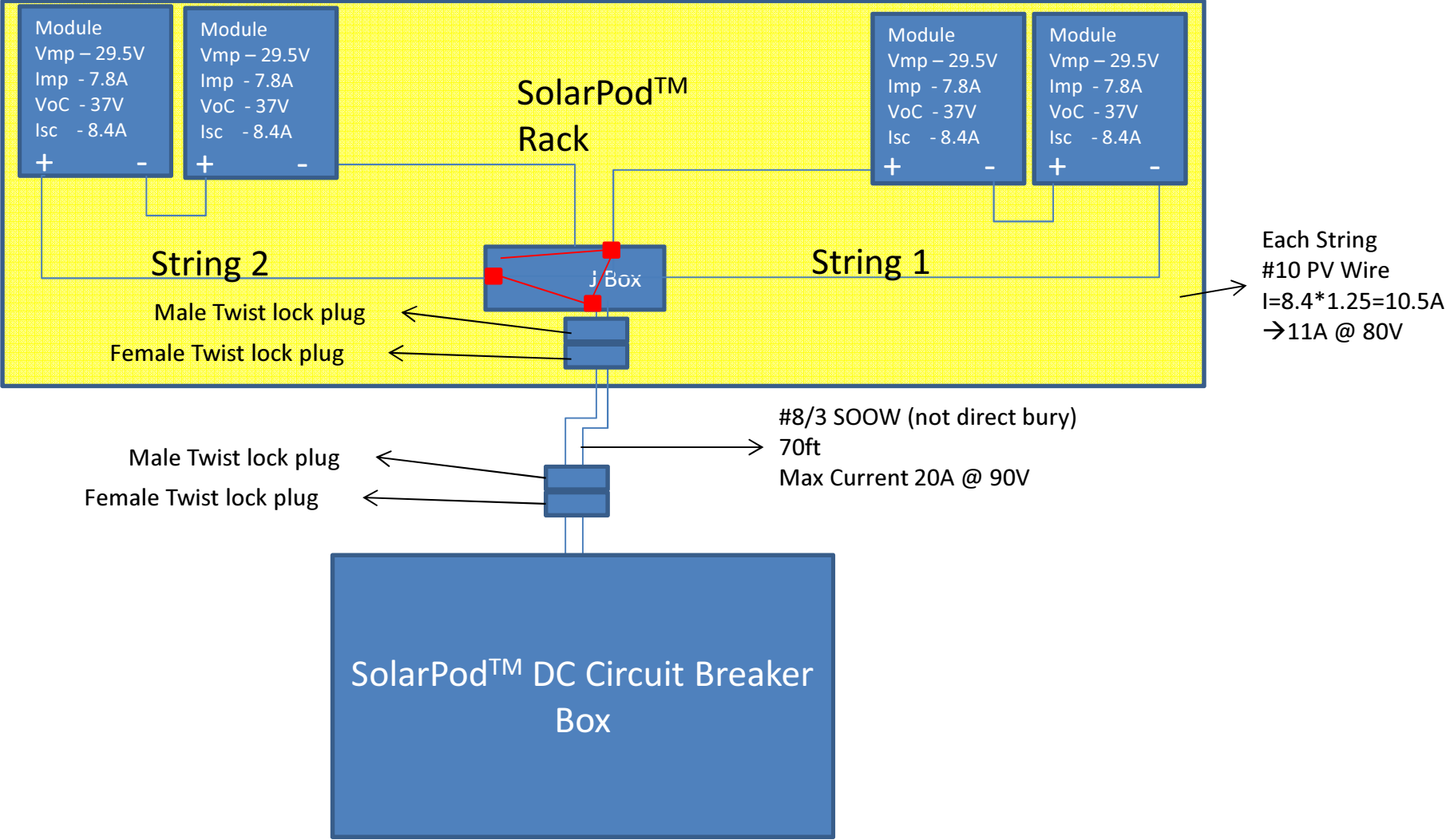


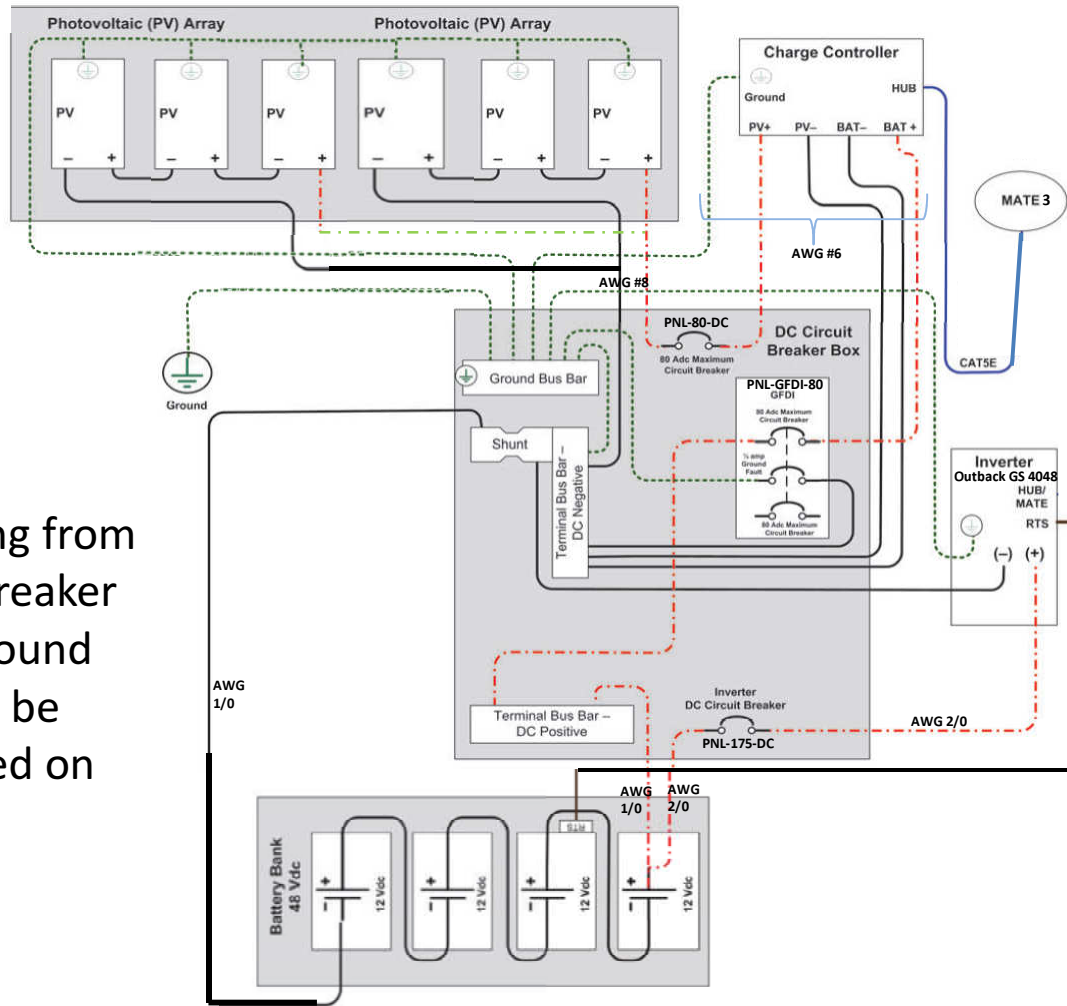
SolarPod™ Standalone Model #1006 diagram



SolarPod™ Standalone Model #1005 diagram



SolarPod™ Standalone Model # 1005 & 1006 diagram



Grounding from the DC Breaker to the ground rod must be performed on site.

Installation instructions

- The rack can be assembled following the video on the website.
- The J Box will be preassembled with female plug and weather proof boot.
- The SOOW #8/3 will be preassembled. One end with the male and weatherproof boot will connect to the J Box. The other end with the female will connect to the DC Breaker Box male.
- The preassembled charge controller will be wired to the DC Breaker Box.
- The wiring of the inverter will be to place the +ve and –ve terminals.
- The wiring of the batteries will be to 48V. Use the +ve and –ve terminals from DC Breaker to wire the batteries.
- Ensure all terminals are torque to tight. They may have got loose in shipping.

Instruction steps

1. Assemble the mechanical SolarPod™ per the video.
2. Connect the electrical strings.
 - a. Open the DC Breaker Box and ensure all breakers are in the OFF position before you connect terminals.
 - b. Connect “To inv+” conductor to the inverter positive terminal.
 - c. Connect “To inv-” conductor to the inverter negative terminal.
 - d. Connect the “To Bat+” conductor to the battery positive terminal. There will be two such conductors.
 - e. Connect the “To Bat-” conductor to the battery negative terminal.
3. Powering Up sequence:
 - a. Turn on the Charge Controller to DC Circuit Breaker.
 - b. Turn on the Charge Controller to Battery Circuit Breaker.
 - c. Program the charge controller.
 - Language – English
 - Nominal System Voltage : Model #1004 – 12V ; Model 1005 & 1006 – 48V
 - d. Turn on the PV Array by connecting the twist lock plugs.
 - Check charging status. Must indicate charging if enough Sun light present.
 - Verify in the inverter there is 120V output between L1 and Neutral.
 - Program float and absorption voltages for the DTM31 battery on the charge controller as follows:

Model	Float voltage	Absorption Voltage
1005 and 1006	54V	56.4V

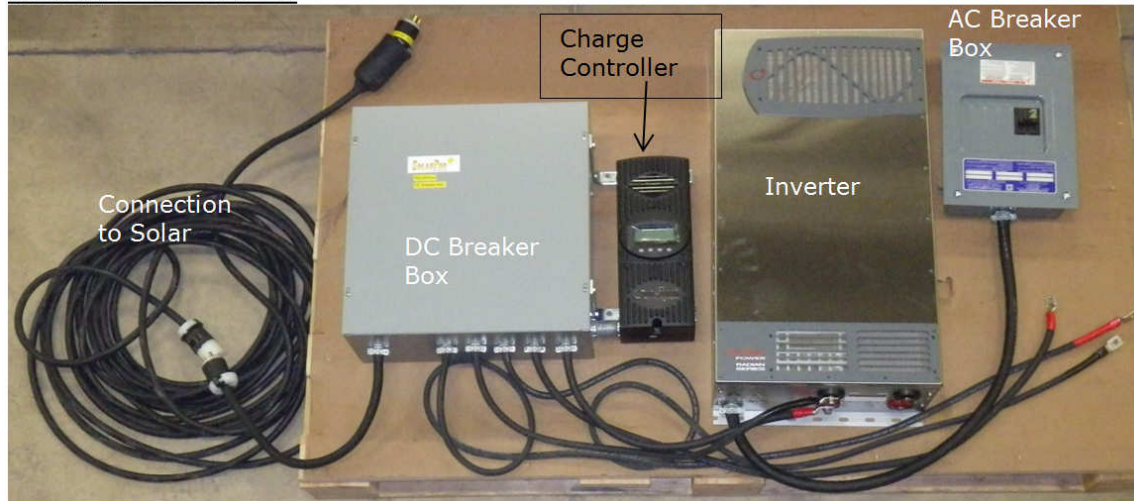


Lead Acid Battery State of charge for a 48V system.

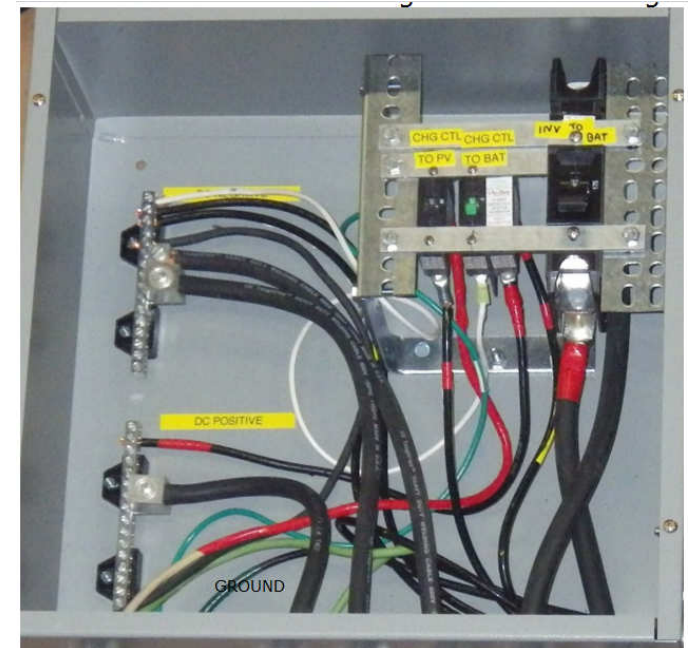
State of Charge	48V battery voltage	Volts per cell
100%	50.8	2.12
90%	50	2.08
80%	49.68	2.07
70%	49.28	2.05
60%	48.8	2.03
50%	48.24	2.01
40%	47.6	1.98
30%	47	1.96
20%	46.32	1.93
10%	45.2	1.89
0%	42.0	1.75

SolarPod™ Standalone Model #1006 Pre-assembled system

Model #1005 & 1006:



Pre-assembled DC Breaker Box, Charge Controller and inverter.



DC Breaker Box