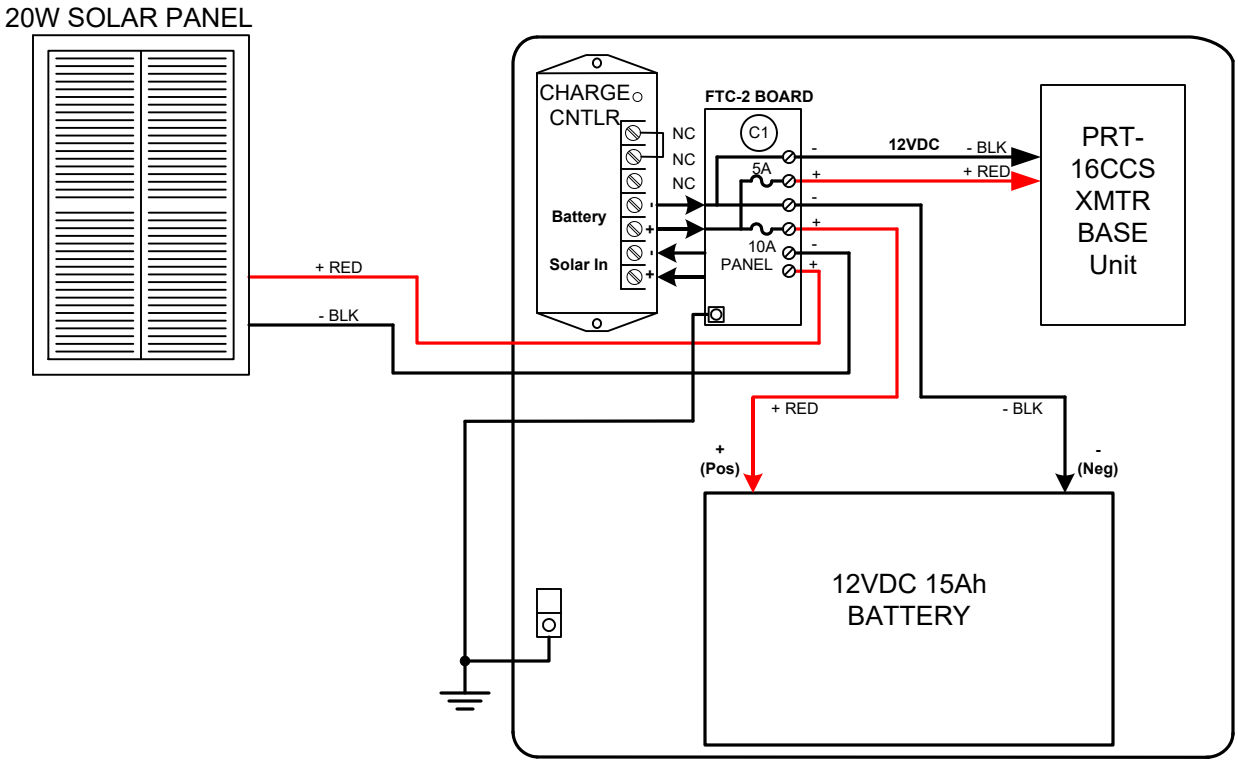
SPS-2

SOLAR POWER SUPPLY INSTRUCTION SHEET



MOUNTING POSITION - The SPS-6 Enclosure must be mounted in an upright position so that the battery is placed on the bottom of the enclosure. The solar panel mounting bracket is designed to attach to a pole or building. Mount the solar panel using the metal mounting system provided to get the correct mounting angle for the maximum solar day. The Solar Panel must not be shaded by trees or a building at any time during the normal solar day.

POWER INPUT - Connect the Solar Panel's positive lead to the "+" Solar Panel input on the FTC-2 termination board. Connect the solar panel's negative lead to the "-" Solar Panel input on the termination board. Connect the electrical system ground to the ground lug on the mounting panel. GROUND MUST BE CONNECTED, either to the electrical system ground or a ground rod.

LOAD CONNECTIONS - Connect the load's positive "+" lead to the + Load terminal. Connect the load's negative "-" lead to the - Load terminal of the termination board. This may already have been done when the PRT-16CCS was pre-mounted.

METER CONNECTIONS - Connect the meter's K, Y and Z Leads to the PRT-16CCS Transmitter Base Unit.

POWER UP - Connect the marked RED lead with the RING terminal to the Battery's Positive (+) terminal.

FUSES - 10 Amp fuses are provided on the FTC-2 for the battery (F2) and the load (F3). A 5 Amp fuse are provided for the solar panel input (F1). Fuse sizes may be reduced to a lower amperage if desired for greater protection.

NORMAL OPERATION - Under normal circumstances the solar panel will output between 10 and 17 volts to the charge controller. The length of time that the battery will hold up the PRT-1600C Transmitter or similar load is directly related to the discharge rate. The lower the discharge rate the longer the battery's charge will last. The hold-up time without any recharge from the solar panel for a 150mA load is approximately 7 days. Limit the load current to the lowest possible level for the best results. Periodically clean the solar panel to remove dirt. Remove SNOW from solar panel as soon as possible.

SOLID STATE INSTRUMENTS

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Rev. 01/26/2024

P/N: 04799-97206B