



Important Safety Instructions

Tools required for installation: screwdriver



NOTE: Indicates a procedure or function that is important to the safe and proper operation of the controller.

General Safety Information

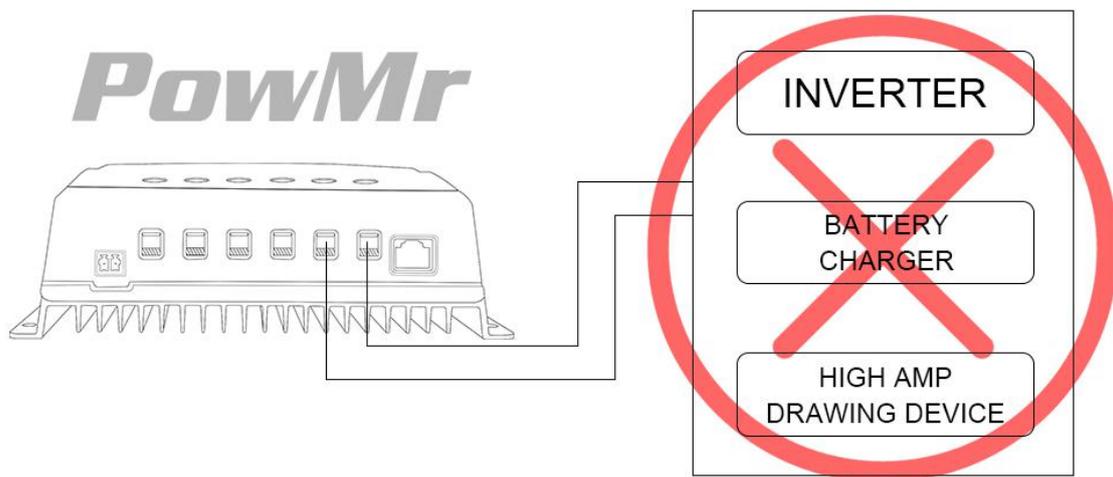
- Read all of the instructions and cautions in the manual before beginning the installation.
- There are no serviceable parts for this controller. Do **NOT** disassemble or attempt to repair the controller.
- Do **NOT** allow water to enter the controller.
- Make sure all connections going into and from the controller are tight.

Charge Controller Safety

- **NEVER** connect the solar panel array to the controller without a battery. Battery must be connected first.
- **DO NOT** connect any inverters or battery charger into the load terminal of the charge controller.
- Refer to the technical specification for the maximum current value and maximum wire size passing over the controller. Make sure your total input voltage and power does not exceed.
- Make sure your battery has enough voltage for controller to recognize your battery voltage before first installation.

WARNING: Connect battery terminal wires to the charge controller FIRST then connect the solar panel(s) to the charge controller. NEVER connect solar panel to charge controller before the battery.

WARNING: Do NOT connect any inverters or battery chargers into the LOAD TERMINAL of the charge controller

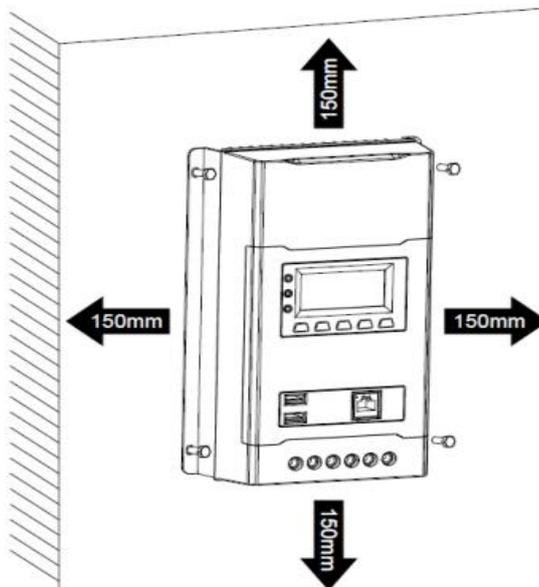


CAUTION: Do not over-torque or over tighten the screw terminals. This could potentially break the piece that holds the wire to the charge controller.

CAUTION: Refer to the technical specifications for max wire sizes on the controller and for the maximum amperage going through wires.

How to Install Your Solar Charge Controller

1. Choose the installation location - Install the charge controller vertically in a place where it will not be exposed to direct sunlight and not high temperature. Please confirm that sufficient ventilation is possible.
2. Clearance check - At least 6 inches (150 mm) clearance must be left above and below the controller in order to wire.
3. Cut the wall - The width of the part to cut the wall is slightly larger than the inside width of the controller and the depth must be 1.7 inches (43 mm) or more.
4. Mark the position of the hole.
5. Open the hole.
6. Fix the charging controller.



7. Wiring:

(1) Turn the adjusting screw counterclockwise until the plate moves downward.

(2) Insert the wire into the new opening between the plate and the "top" of the terminal hole.

(3) When turning the adjuster clockwise, the plate moves upward and crushes the wire in the hole of the terminal.

(4) Make sure all connections going into and from the controller are tight.



8. Connection order:

(1) **Connect the controller and battery (Important)**

(2) Connect the solar panel and the controller.

(3) Connect your load.

