


E-Stop Installation

Tools required: Drill, M6 drill bit, 1/8" flathead screwdriver, #2 Phillips screwdriver, hammer/mallet

Accessories required: E-stop button (D), wall anchors (O), self-tapping screws (N)

	<p>Note: The E-Stop button (D) is required for the activation of rapid shutdown in the battery storage PV system.</p> <p>The instructions below are for mounting the E-Stop to drywall. If another mounting surface is used, use appropriate hardware to securely mount the enclosure.</p>
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The emergency stop (E-stop) button (D) included with this inverter is used to stop the PV modules from passing voltage on the string conductors, leaving them at a safe voltage for first responders to perform work in or on the building.

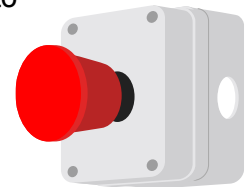


Figure 48 RSD E-stop button

The e-stop button is a normally closed (NC) contact. When the button is pushed, the state of the e-stop is open.

- 1) Use a #2 Phillips screwdriver to loosen the 4 plastic screws of the assembled e-stop enclosure. Separate into two parts.
- 2) Use the template in the Appendix of this document and an M6 drill bit to drill out pilot holes for the mounting screws.
- 3) Insert the wall anchors (O) into the 4 holes and tap with a mallet to bring flush with the wall.
- 4) Align the holes in the lower half of the e-stop enclosure (D) with the positions of the wall anchors. Use the 4 self-tapping screws (N), or other appropriate mounting hardware depending on the surface, to secure the enclosure to the wall.

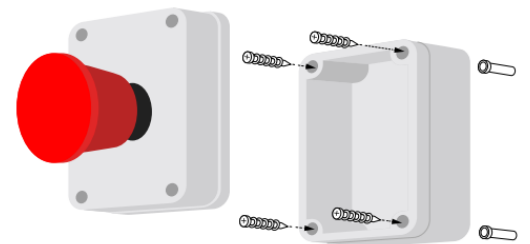


Figure 49 RSD E-stop button mounting

E-Stop wiring

Tools required: 1/8" flathead screwdriver, #2 Phillips screwdriver, cable ties

Supplies required: conduit and associated water-tight fittings, two 18-22AWG conductors

The left COM port (9) is used for multiple communications connections; e-stop, TAP, energy meter. If conduit has not already been installed with accommodation for the e-stop wiring,



install this now. Make sure to plan for the additional connections that will need to enter this port and use appropriate fittings to ensure a water-tight fit.

Two 18-22AWG conductors are used for the connection between the e-stop and inverter. At the inverter these conductors are terminated at a 3-pin connector on the left side of the communications board. At the e-stop, the conductors are connected to the back of the contactor.

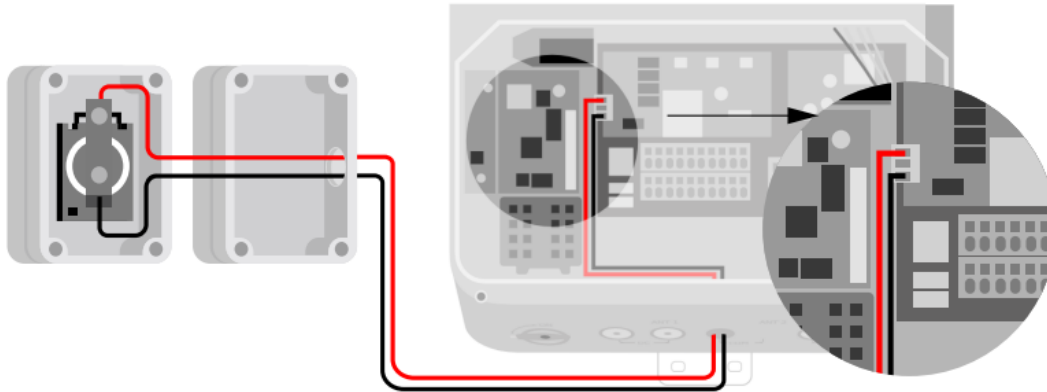


Figure 50 E-Stop connections

- 1) Pass the two power conductors through the conduit between the inverter and e-stop.
- 2) Remove the 3-pin connector from the CN14 port.
 - a. Remove the jumper wire from the 3-pin connector.
 - b. Connect the two conductors to the 3-pin connector in positions 1 and 3 (position 2 is open). Polarity is not important.
- 3) Insert the 3-pin connector into port CN14.
- 4) Connect the conductors to the e-stop contacts as shown in Figure 46.
- 5) Replace the e-stop cover and tighten with the 4 plastic screws.

Energy Meter

The energy meter provides important information about the building's energy usage. When installed in the Tigo EI Solution this data used to help dictate the state of operation for the battery. The energy meter data is also displayed in the EI Platform, providing visibility of when the EI system is importing or exporting energy.



Note:

The energy meter is required when installing the EI system with batteries. This meter is optional when installing in a grid-tied-only application. The meter is to be ordered separately from the EI Inverter.