

ELECTRIQ POWER

*The Smart Home Battery Solution*



# Quick Install Guide

## for the Electriq Power AC & DC PowerPod 2

### Power Shutdown Switch

## 1. Purpose

The purpose of this document is to provide the requirements and instructions to attach an external emergency power shutdown switch to the PowerPod 2 energy storage system.

## 2. General

The emergency switch shuts down all DC inputs (battery and solar) so the inverter no longer injects any AC power to either the grid or essential load panel (i.e. the inverter is isolated from the grid and essential load panel).

Note, the emergency switch has two poles (N.C. and N.O.), only the N.C. is used to connect the inverter shutdown I/O pins.

## 3. Scope

This procedure applies to the PowerPod 2 Energy Storage System.

## 4. Equipment

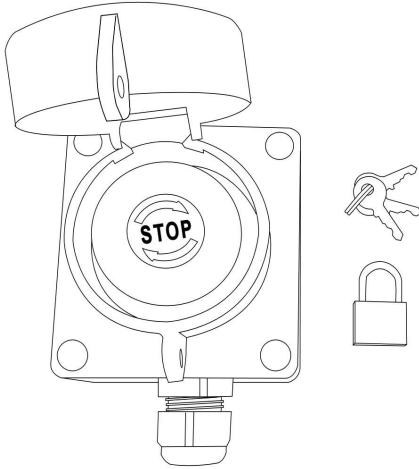
- 4.1. Fluke 117 Multimeter with Non-Contact Voltage LoZ Auto Volts True RMS voltmeter

## 5. References

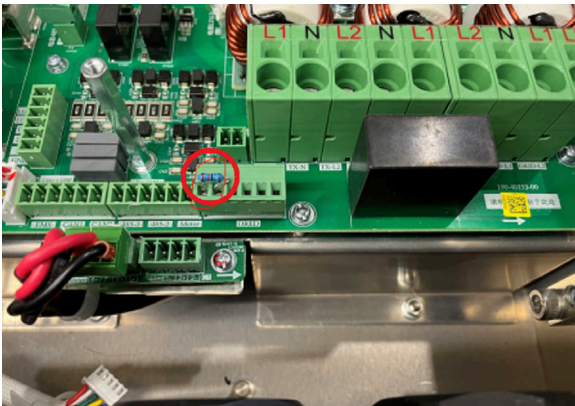
- 5.1. Electriq Power document # 310-1001 Installation Manual for the Electriq PowerPod 2

## 6. Material BOM

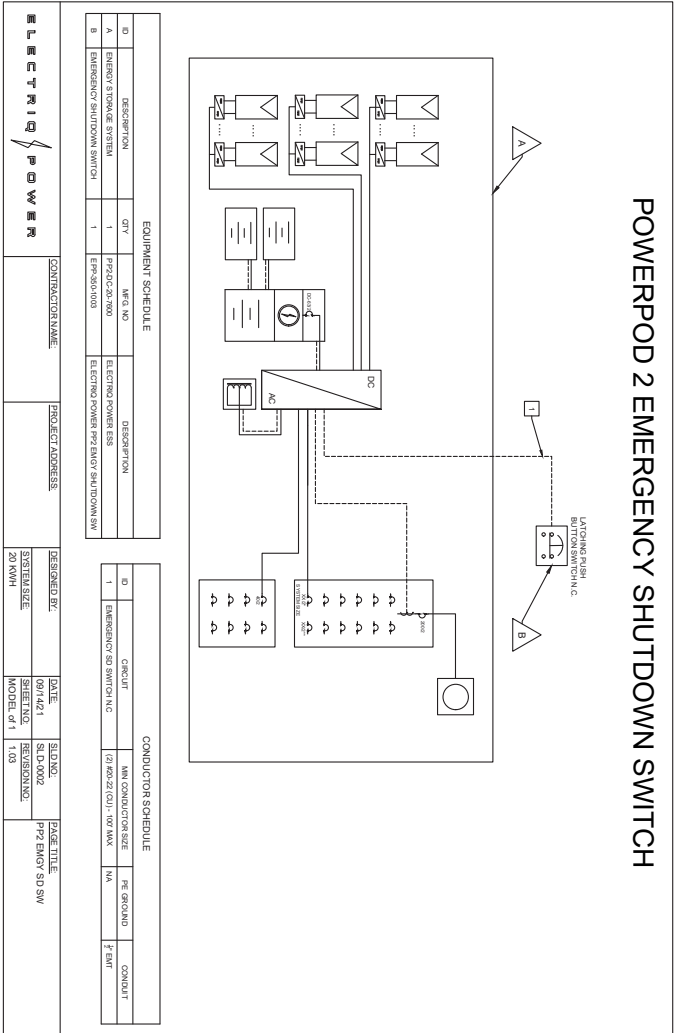
EPP-350-1003



PowerPod 2, existing 6-Pin Shutdown Connector, CN403, circled in red.



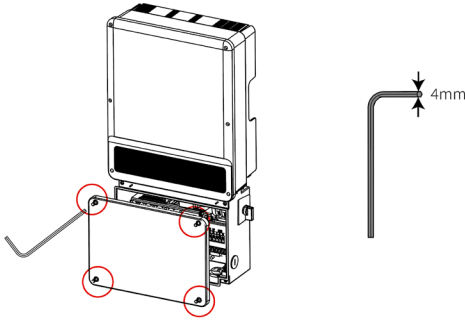
# 7. Single-Line Diagram (PowerPod 2 Emergency Shutdown Switch)



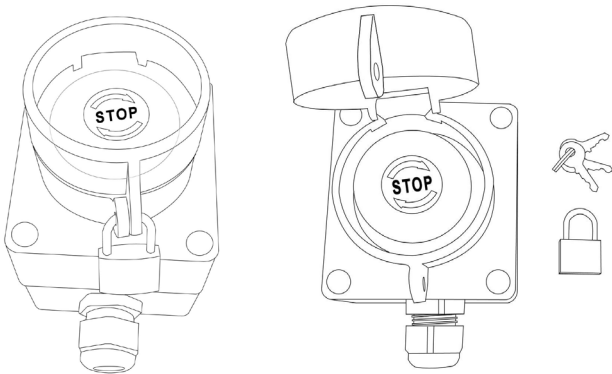
## 8. Installation

### 8.1. Rough wiring the Emergency Stop Switch.

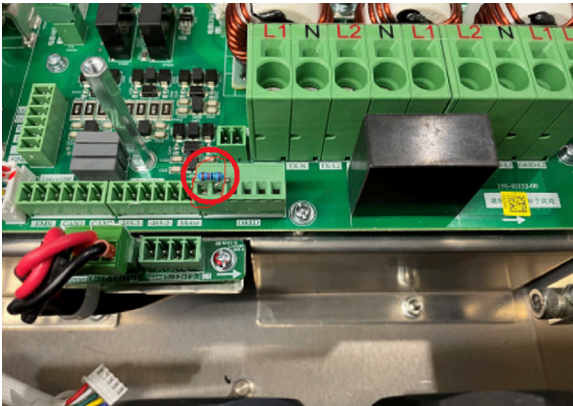
- 8.1.1. Open the inverter enclosure cover by removing four screws using a 4mm Allen Wrench.



- 8.1.2. Disassemble the Emergency Stop Switch from it's housing.



- 8.1.3. Mount the Emergency Stop Switch to it desired location.
- 8.1.4. Route two 20 to 22 AWG wires 100' or less from the stop switch to the inverters.
- 8.1.5. Connect the two wires to the Emergency Stop Switch N.C. connections.
- 8.1.6. Remove the PP2, existing 6-Pin Shutdown Connector, CN403, with the resistor circle in red below and wire the other end of the two connection wires from the Emergency Stop Switch to the connector by removing the resistor circle in red.



- 8.1.7. Replace the 6 pin connector back into the inverter socket.
- 8.1.8. Check wiring:  
  
Compare to the single line drawing in section 7 above.

## 9. Operation

- 9.1. The remote switch is closed to operate (turn on) the inverter.
- 9.2. The remote switch is opened to deactivate (turn off) the inverter. When the inverter is deactivate it no longer injects any AC power to either the grid or essential load panel (i.e. the inverter is isolated from the grid and essential load panel). When the inverter is deactivate the home non-backup loads and backup loads are both grid tied and both disconnect from the grid when the main breaker is moved to the off position.
- 9.3. When the inverter is in “shutdown mode” the inverter’s low voltage telemetry stays active and continues to send dashboard data.

## 10. Final Assembly

- 10.1. Reassemble the Stop Switch.
- 10.2. Using the 4mm Allen Wrench, put back the inverter cover.