RESILIENT OFF-GRID POWER

**Send completed form to service@ravolt.us**

# QA/QC DOCUMENT

Inspector Name:

Company Name:

Date of Final Inspection:

**Instructions:** Prior to beginning any QA/QC inspection, please stay aware of any possible safety risks that may be present. Please complete the inspection form thoroughly, marking all necessary items throughout each section. If there are exceptions, or an unsatisfactory item, please explain the issue in the "Notes" box of the section. This document is intended to be completed only by an authorized installer of RaVolt, LLC. Pictures are encouraged throughout the inspection.

## Electrical:

| Item: | Description: | Pass: | Fail: | Notes: |
|---|---|---|---|---|
| Enclosure Condition | The RaVolt enclosure has not been damaged during installation and all lifting points remain in shipped condition. | | | |
| Enclosure Pad | The concrete enclosure pad has been placed on a secure, compacted gravel/sand base. | | | |
| PV Wire | All modules have been installed using the proper PV Wire, per local and national code. | | | |
| Wire Management | All wire has been neatly organized throughout the array using consistent stainless steel module clips. | | | |
| MC4 Connectors | All MC4 connectors have been properly crimped into place with an MC4 crimp tool, to ensure no loose connections. | | | |
| Drip Loop | All PV wire has been neatly run into a designed drip loop, utilizing split loom and entering a weather head. | | | |
| Conduit | All conduit is installed and strapped into place per code. | | | |
| PV Terminations | PV wire has been terminated within the RaVolt enclosure, ensuring the correct polarity upon installation. | | | |
| Trenching | All trenches are at a minimum depth of 24", with electrical warning tape 12" above conduit. Trenches were compacted and filled with clean fill. | | | |
| Anchoring | The RaVolt enclosure has been anchored to the concrete pad, per provided spec. | | | |

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|---|---|---|---|---|
| | Unistrut has also been installed between enclosure and racking. | | | |
| Electrical Equipment | All switches, disconnects, batteries, and other electrical equipment has been installed to code. | | | |
| Labels | All necessary labels have been installed on equipment. | | | |
| Terminations | All terminations have been made with ring terminals. | | | |

**Grounding and Bonding:**

| Item: | Description: | Pass: | Fail: | Notes: |
|---|---|---|---|---|
| Enclosure Grounding | Enclosure is properly grounded using a lug and ground rod, per NEC code. | | | |
| Ground Rod | Ground rod is installed and connected at the enclosure, and the racking system to the home. | | | |
| Bonding 1 | Racking is bonded to ground rod, per manufacturer spec. | | | |
| Bonding 2 | Racking is bonded to inverter(s), per code. | | | |
| Bonding 3 | RaVolt enclosure is bonded to ground rod, using ground lug installed near CB1. | | | |
| Neutral to Ground Bond | Neutral to ground bond is present in *ONLY ONE* location, specifically the AC disconnect. This neutral to ground bond includes the entire system, home service panel, and home load panels. | | | |

**Generator (if applicable):**

| Item: | Description: | Pass: | Fail: | Notes: |
|---|---|---|---|---|
| Generator Set-Up | Generator is set up properly for gas line installation in designed location, per design plans and manufacturer's instructions. | | | |
| Conduit | Conduit is installed, strapped, and ran from generator to the RaVolt enclosure. | | | |
| Electrical | Generator two wire start and charging wires have been installed and terminated in designed location using ring terminals. | | | |

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|---|---|---|---|---|
| Battery | Generator battery is a 12v group 51, with a minimum rating of 500 cold cranking amps at 0° F. | | | |

**Inspector Name:**

**Inspector Signature:**

**Date:**