

# Generac PWRcell™ Commissioning Quick Start

## Pre-Commissioning Checklist

### Check REbus wiring for short circuits and correct polarity

**NOTE:** Perform a voltage check on REbus connections prior to measuring resistance to prevent meter damage should line voltage be present.

**NOTE:** All REbus checks must be performed prior to energizing the system.

- Turn all DC Disconnects OFF and measure resistance at RE1/RE2/RE3/RE4
  - RE+ to RE- resistance is >10 kOhms
  - RE+ to Ground resistance is >10 kOhms
  - RE- to Ground resistance is >10 kOhms
- Turn DC Disconnects ON
- Verify ground connection from inverter grounding bar to each device (<2 Ohms)

### Check AC Power

Turn on supply breaker and make the following checks based on the inverter series installed.

**NOTE:** Ranges listed are for IEEE1547 grid compliance default settings only.

#### Single Phase 120/208 V X7600 AC Power Checks

##### Line Voltage Check

- Neutral to Ground is <5 VAC
- L1 to Neutral is 110-128 VAC
- L2 to Neutral is 110-128 VAC

##### Phase Voltage Check

- L1 to L2 is 220-256 VAC

#### 3 Phase 120/208 V X11400 AC Power Checks

##### Line Voltage Check

- Neutral to Ground is <5 VAC
- L1 to Neutral is 110-128 VAC
- L2 to Neutral is 110-128 VAC
- L3 to Neutral is 110-128 VAC

##### Phase Voltage Check

- L1 to L3 is 190-222 VAC
- L1 to L2 is 190-222 VAC
- L2 to L3 is 190-222 VAC

### Verify Internet Connection

- Verify blue Internet LED on inverter control panel is ON.

If Internet LED is not illuminated:

- Verify Beacon is installed. See the Generac PWRcell Inverter Installation Manual for more information.
- Navigate to the inverter Ethernet settings page and disable Ethernet.
- Use network cable tester to verify cable continuity back to router OR plug in laptop to check connection at inverter.

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## Commissioning Procedure

**NOTE:** Perform Pre-Commissioning Checklist prior to commissioning.

**NOTE:** If installing high-voltage PV modules or an automatic transfer switch, read the manuals included with your Generac PWRcell products for scenario-specific instructions.

1. Connect Generac PWRcell Inverter to AC power.
2. Select inverter system mode on Generac PWRcell Inverter control panel.

**NOTE:** Do not select Grid-tie mode for battery systems.

3. Configure inverter settings.
  - If zero-export is required:
    - Change EnaZeroExp from 0 to 1 on Mod Settings page.
  - If backup power is required,
    - Confirm EnalIslanding is set to 1 on Mod Settings page.
    - Turn ON Generac PWRcell Inverter critical loads breaker.
    - Turn ON Generac PWRcell Battery disconnect switch.
4. Select inverter compliance setting
  - If local grid specifications differ from IEEE 1547, use the installer tool application available on Beacon to configure these settings while on site. Refer to Installer Configuration Tool Guide for instructions.
    - Select Installer Tool option on Beacon device page
    - Connect to local WiFi network from Beacon and open a web browser to URL '10.10.10.10'.
    - Navigate to Utility Compliance Configuration.

**NOTE:** Inverter must be Disabled to change settings

- Activate Warranty.
  - Generate Compliance PDF.
5. Enable Connected REbus™ Devices.
    - Verify inverter DC disconnects are ON.
    - Enable Generac PWRcell Inverter through inverter device page.

- If CTs installed, verify the utility pole icon displays on the bottom right of the home screen. If CT icon does no display:
  - Confirm wiring and CT placement. See Connecting Current Transformers section in Generac PWRcell Inverter installation manual for more information.
  - Recalibrate CTs per instructions in the Generac PWRcell Inverter Installation Manual.
  - Verify CT icon display on inverter control panel home page.
- Verify connected Generac PV Links and Generac PWRcell Battery display as their own page on inverter.
- Enable S2502 PV links one at a time
  - If installing with SnapRS devices, select Enable with PVRSS.

**NOTE:** Enable with PVRSS option is only used when commissioning.

- Verify SnapRSInstalld value under Mod. Settings matches the installed number of SnapRS devices.
  - Confirm Generac PV Links are making power.
    - Low Sun could indicate a connection issue or reverse polarity if sun is shining.
    - If PV Link device page does not appear on inverter, check ground connections and polarity.
  - Enable Generac PWRcell Battery from battery device page on inverter
    - See Generac PWRcell Battery Owner's Manual for information on adjusting battery depth of discharge
6. Test islanding ability by shutting OFF home AC power.
  7. Register inverter at <https://register.generac.com>.