

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.

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>.