

STOP

Verify The Following Prior to Commissioning

Pre-Commissioning Checklist

All AC/DC disconnects should be off

Check REbus wiring

Ensure REbus wiring is labeled on both ends and visually inspect for correct polarity.

- ☐ Verify ground connection from inverter grounding bar to each device
- 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

Check AC Power

Turn on inverter back-feed breaker and make the following checks based on the inverter series installed.

If multiple PWRcell inverter systems are installed, have only one inverter backfeed breaker energized at a time.

- NOTE: The PWRcell Inverter will power on at this time.
- NOTE: Ranges listed are for IEEE1547 grid compliance default settings only.

Single Phase 120/240 V Inverter 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 Inverter 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.

- Use network cable tester to verify cable continuity back to router OR plug in laptop to check connection at inverter.

- Check location of Ethernet cord. Ethernet input is located on left side under DC disconnects.

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.

STOP

For Multiple Inverter Systems Commissioning, please follow the procedure in the “Multiple Inverter Systems Commissioning” Section in the PWRcell Inverter Installation Manual.

1. Register inverter at <https://pwrfleet.generac.com>.

NOTE: Registration activates the warranty.

2. Ensure Generac PWRcell Inverter is connected to AC Power (If Pre-Commissioning Power Checks were performed, skip this step).

3. Turn DC disconnects to the ‘ON’ position.

4. Select system mode on Generac PWRcell Inverter control panel.

NOTE: Do not select Grid-tie mode for systems that include a battery.

5. Configure inverter settings.

If backup power is required:

- Confirm Enalstanding is set to ON.

- Turn ON Generac PWRcell Inverter protected loads breaker.

- Turn ON Generac PWRcell Battery disconnect switch.

If zero-export is required:

- Change EnaZeroExp from OFF to ON.

6. 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.

NOTE: Inverter must be Disabled to change settings

7. Enable Generac PWRcell Inverter through inverter device page.
8. Enable Connected REbus™ Devices.

- Verify connected Generac PV Links and Generac PWRcell Battery display as their own page on inverter.

- Enable Generac PV Link 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 on the input side of the Generac PV Link if the sun is shining.

- If Generac PV Link device page does not appear on inverter, check polarity and ground connections.

- 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

- If CTs installed, verify the utility pole icon displays on the bottom right of the home screen.

If CT icon does not 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 displays on home page of inverter screen.

9. Test islanding ability by shutting OFF home AC power.
- Part No. DMAN00027 Rev C