

**Installer checklist - settings review**

# 48V Battery Communication and Inverter Settings Checklist

## Purpose

Use this checklist before pairing a 48V rack battery with a split-phase inverter. It is a project intake and startup checklist, not a wiring diagram, not a stamped engineering document, and not a programming specification. Final settings must follow the exact battery and inverter manuals.

## Information to collect before settings review

- Battery model, serial number, firmware label if available, and battery quantity.
- Inverter model and firmware version, including whether the job uses Megarevo R8KLNA, Hoymiles HYS-LV-USG1, Growatt SPH, or another inverter.
- Nominal battery voltage, usable voltage range, max charge current, max discharge current, and recommended charge voltage from the battery datasheet.
- Critical loads list, expected surge loads, backup panel size, and transfer / critical-loads arrangement.
- City, utility, AHJ, and any certificate / listing requirement before hardware is quoted.

## Communication review

Item	Check before startup
BMS communication path	Confirm whether the project uses CAN, RS485, closed-loop BMS, or voltage-based open-loop settings.
Cable and pinout	Use the pinout from the exact battery and inverter manuals. Do not assume RJ45 pinout across brands.
Battery address / DIP settings	Confirm master battery address, parallel battery addresses, and any termination / baud-rate settings.
Protocol selection	Select the inverter battery protocol only when the battery supplier confirms compatibility. If not confirmed, use a reviewed voltage-based setup.
Monitoring	Record whether monitoring comes from inverter app, battery BMS, gateway, or third-party VPP software.

## 48V value-backup setting review

- Set battery type, capacity, charge current, discharge current, low-voltage cut-off, restart voltage, and grid / generator charging behavior according to the approved manual.
- For multiple batteries, set system capacity and current limits according to the actual parallel battery count and cable/breaker design.
- Do not exceed the lower of the inverter limit, BMS limit, cable ampacity, breaker rating, or battery datasheet limit.

- For generator support, confirm inverter generator-input capability, neutral / bonding method, frequency tolerance, and transfer arrangement before field startup.

## Certified-system route

When AHJ, utility, or customer paperwork requires a certified home ESS package, use a documented system path such as Hoymiles HYS + LB-10D-USG2 or Growatt SPH + ALP only when the exact model combination and certificate documents match the quote.

## Startup record to keep

- Photos of battery labels, inverter label, wiring compartment before close-up, battery breaker, DC disconnect, AC disconnect, and critical-loads panel.
- Final inverter settings screenshots or exported settings file.
- First charge/discharge test notes, fault codes if any, and customer load test result.
- Installer name, license/company if applicable, date, site ZIP, and support contact.