

# Technical Note: Voltgo VLRV Firmware Compatibility Issue

June 2026 – Rev1

## 1. Introduction

This technical note explains that there might be firmware compatibility issues between different battery generations operating in the same parallel system.

## 2. Background — Compatibility Issue

Voltgo VLRV Elite batteries have been manufactured across multiple hardware generations, with each generation using a different communication firmware. All firmware versions are not cross-compatible so batteries running different communication firmware cannot successfully talk with one another, despite the physical hardware being identical or similar.

## 3. VLRV Elite Series Generations Overview

Serial Number	Communication Firmware Version	Notes
SCxxx	v1.22 (obsolete) / v1.26	First generation — Late 2023
AUS2024xx	v1.26	Same hardware as SCxxx — updated FW 2024
AUS202508	v1.10	Current generation — August 2025 onwards

**NOTE:** If an SCxxx battery is connected directly to a GX device or an Inverter Comms Hub in an ESS and communication is not working correctly, the battery may be running outdated communication firmware (for example, v1.22). Contact Master Instruments to verify the firmware version and determine whether a firmware update is required.

*comms = communication*

## 4. How to Identify the Problem

Communication firmware mismatches most commonly occur in the following situations:

1. If not all connected batteries are visible on the GX device or Inverter Comms Hub, despite the batteries being correctly connected in parallel and the RJ45 link cablings being installed correctly, this may indicate a communication firmware mismatch between the batteries in the system. An example is below.

Details		13:42
Highest cell voltage	B2S1	3.620V
Minimum cell temperature	B2	27°C
Maximum cell temperature	B2	31°C
Battery modules	1 online	0 offline
Installed / Available capacity	87Ah	87Ah
Connection information	192.168.60.152	

*Example: You have 3 batteries in parallel but only one battery is showing.*

*This is COMMS firmware mismatch.*

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2. If no batteries are detected by the GX device or Inverter Comms Hub, this may indicate a communication firmware mismatch between the batteries in the system.
3. If the total battery capacity displayed on the GX device or Inverter Comms Hub is lower than the actual installed battery capacity, this may indicate a communication firmware mismatch between the batteries in the parallel system.

### 5. Resolution

All batteries in the system must be updated to the same communication firmware. However, depending on the mix of batteries in the parallel system, you can choose one of the following approaches below:

Options	Scenario	Action
A – Upgrade Old Batteries	You have purchased new AUS202508 batteries to build a new parallel battery system. You also have old, existing SCxx / AUS2024xx batteries available and would like to integrate them as well into the <b>NEW UP-TO-DATE</b> ESS installation.	Upgrade Old Batteries (SCxx / AUS2024xx) to v1.10 firmware.
B – Downgrade New Batteries	You currently have an existing parallel system consisting of SCxx and/or AUS2024xx batteries, and you want to integrate newly purchased AUS202508 units into that <b>EXISTING</b> ESS installation.	Downgrade New Batteries (AUS202508) to v1.26 firmware.

### 6. Choice of Resolution

This firmware update can be carried out in one of the following methods depending on the customer's preference:

1. **Self-Service:** The customer performs the upgrade/downgrade themselves using the USB to RJ45 interface cable provided by MI, following the [Voltgo SOP – Communication Board FW Update](#) Document.
2. **Returned to MI:** MI performs the upgrade/downgrade on behalf of the customer.
3. **Pre-Configuration:** The customer requests MI to upgrade/downgrade the newly purchased batteries before dispatching.

### 7. Post-Update Verification

Customer can verify multi-battery operation in the GX device or inverter.

**[For more assistance, contact MI Engineering via Email or Phone Call.](#)**