

WeVolt Communication Setup Guide



Inverter Communication type: RS485

Battery Recommended type: RS485 / CAN (RS485 is recommended for better communication)

Communicate with most brands



Instruction:

This guide explains how to set up communication and how to select the correct protocol when matching a WeVolt inverter and battery with different brands.

WeVolt inverters and batteries are both designed around the Pylon-compatible communication framework, which allows them to work with most mainstream platforms. Because protocol implementation may vary by brand, model, firmware version, or production batch, correct protocol selection is required during installation.

Last Update:

2026/03/06

Customer Support:

Support@wevolt.global

Inverter Communication Setup



Inverter Communication type: RS485

Protocol 1 (for brands with Pylontech Protocol)

This setting is suitable for many commonly used mainstream platforms, including systems associated with brands such as:

WeVolt, JK BMS V19 based DIY Battery (Yixiang, EEL, Gobel etc.), Felicity, Dyness, Growatt, Deye, Luxpower, Ruixu, EG4 etc.

Protocol 2 (If communication is not established)

If Protocol 1 does not match successfully, or if the target brand / model is not within the standard Pylon-compatible group, please switch the inverter setting to protocol 2.

Battery Communication Setup

Battery Communication type: RS485 and CAN

CAN protocol set

- Protocol 1 – Pylontech (incl. WeVolt)
- Protocol 2 – Solis
- Protocol 3 – Goodwe
- Protocol 4 – Voltronic
- Protocol 5 – Megarevo
- Protocol 6 – Livoltek
- Protocol 7 – SMA
- Protocol 8 – Victron

RS485 protocol set

- Protocol 1 – Pylontech (incl. WeVolt)
- Protocol 2 – Solis
- Protocol 3 – Growatt
- Protocol 4 – Voltronic
- Protocol 5 – Pylontech_sum (in case standard Protocol 1 does not work)

Notes and Troubleshooting



Pin definition may vary by brand

Some brands do not use the standard RJ45 pin sequence.

For example:

Dyness may require an adjusted cable pinout before communication can be established correctly.

Therefore, successful protocol selection alone does not always guarantee communication.

The cable wiring sequence must also be correct.

Firmware and model differences may affect compatibility

Even within the same brand, different model generations, discontinued models, or firmware versions may use different protocol details.

This means:

A standard protocol selection may work for one model but another older products may not fully match newer protocol implementations.

Some discontinued models may require additional support.

If communication cannot be established on either the inverter side or the battery side, WeVolt will assist with troubleshooting.

Please contact – Support@wevolt.global

Our support includes:

- Protocol confirmation
- Wiring and pinout checking
- Port selection verification
- Remote parameter review
- Remote protocol supplementation
- Remote firmware or protocol upgrade, where required

This is especially applicable when:

- The target brand is not included in the standard list
- The inverter or battery model is discontinued
- The original protocol version is outdated
- A specific model has different protocol details from the mainstream version