KIT CONNECTION GUIDE · IN ENGLISH

# Kit Aninerel ANL-4200T 4.2 kW 24 V + EASUN POWER 25.6 V 100 Ah 2.56 kWh

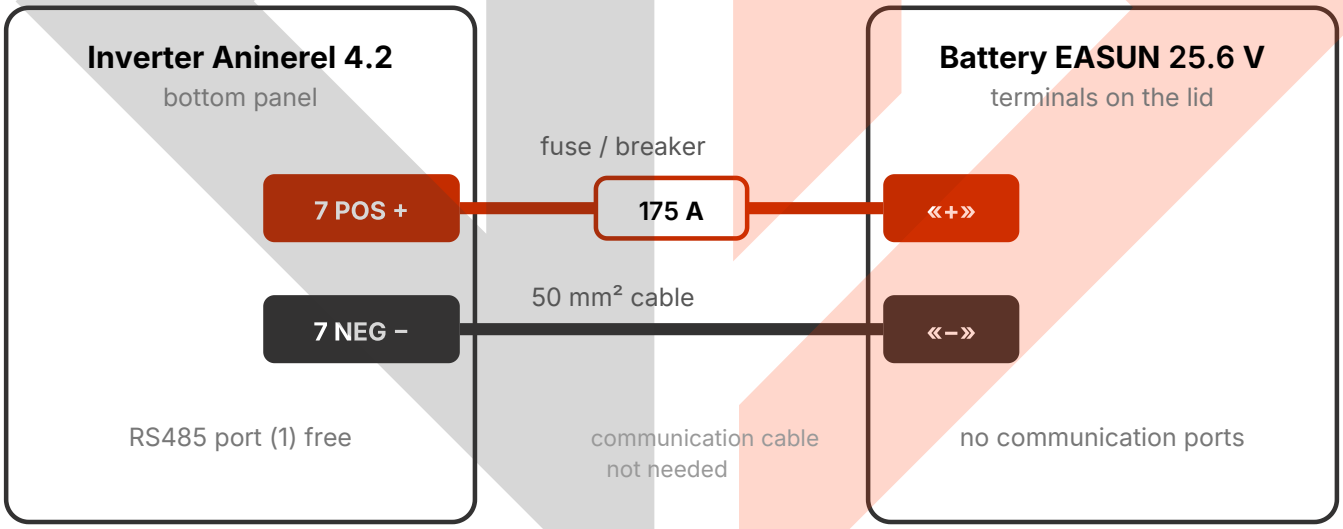
What connects to what, in which order to switch on and what to set in the inverter

## Kit contents

| | Inverter Aninerel 4.2 kW | Battery EASUN POWER |
|---|---|---|
| What it is | Hybrid inverter 4.2 kW, 24 V, Wi-Fi (ANL-4200T-24L-W-PRO) | LiFePO4 (8S), 25.6 V 100 Ah |
| Power / energy | **4.2 kW** | **2.56 kWh,** load up to **2560 W** |
| Battery voltage | **24 V** | **25.6 V** |
| Charging current | up to 100 A (program 02, default 60 A) | **20 A** (manufacturer's table) |
| BMS communication | RS485 port (1) is **not used** | **none:** only "+" and "–" terminals |
| Battery protection | fuse or breaker, typical current **175 A** | built-in BMS |

**Important about power.** The battery delivers up to **2560 W** (manufacturer's table), while the inverter is rated for 4.2 kW. When the inverter runs on the battery only, keep the load up to 2.5 kW. The inverter can deliver full power when there is grid or solar power.

## Connection diagram



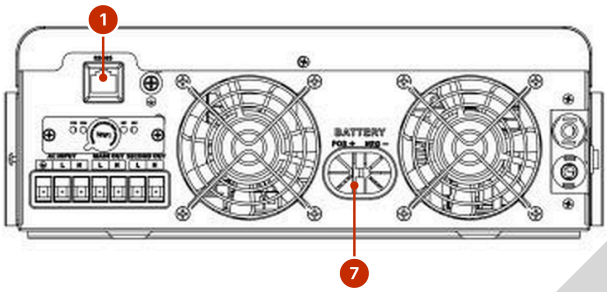

Number 7 is the BATTERY POS + and NEG – terminals on the inverter's bottom panel, 8 is the ON/OFF switch on the side wall (numbers as in the figure on the next page and in the inverter manual). **The inverter has no reverse polarity protection.** Connect the grid, loads and solar panels according to the inverter manual.

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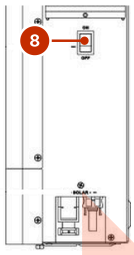
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# Where these connectors are

view from below




side wall







**Inverter:** manual figure: underneath, the BATTERY POS + / NEG – terminals (7) under the bottom cover; on the side wall, the ON/OFF switch (8). The RS485 port (1) is not needed for this kit.

**Battery:** "+" and "–" terminals on the top lid, polarity marked on the case. There are no communication ports to the inverter.

## Connection procedure

1. The inverter is switched off with the ON/OFF switch (8); the fuse / breaker on the battery cable is off.
2. Remove the inverter's bottom cover. Crimp lugs onto the 50 mm² cables.
3. Negative cable: battery "–" terminal → inverter **NEG –** terminal (7).
4. Positive cable via a **fuse or breaker** (typical current 175 A per the manual): battery "+" terminal → inverter **POS +** terminal (7). Tighten the terminals to 4–6 N·m. Check the polarity with a tester: there is no reverse polarity protection.
5. Refit the bottom cover, switch on the fuse / breaker, then the inverter with the ON/OFF switch (8).
6. Set up the inverter according to the table below. Do not connect a communication cable: this battery does not have one.

## Inverter settings for this battery

| Item | What it is | What to choose for this kit |
|---|---|---|
| **05** | Battery type | **LIb —** lithium battery without communication (default AGn); the manual recommends the LIb factory values for such a battery |
| **26** | C.V charge voltage | **28.2 V (**factory for LIb), no higher than the 28.4 V recommended for the battery |
| **27** | Float voltage | **28.2 V (**factory for LIb), equal to program 26, as the manual recommends |
| **31** | Main output cut-off | **25.9 V (**factory for LIb), above the battery cut-off of 24.0 V |
| **12** | Switch to grid (SbU / SOL) | **26.0 V (**factory for LIb); not lower than cut-off + 2 V |
| **02** | Max. charge current (solar + grid) | **20 A —** no more than the battery charge current (default 60 A); program 11 (from the grid) also **20 A,** default 30 A |

How to enter the menu: hold ENTER for 3 s, use UP / DOWN to select a program, ENTER to change, UP / DOWN for the value, ENTER to save, ESC to exit. According to the manual, make the settings when the inverter is not supplying voltage to the output (only the display is lit), and restart the inverter after setting up. The 20 A current is from the manufacturer's table in the product card photo (the card text suggests up to 50 A; the lower value is used).

**No BMS communication.** The battery has only "+" and "–" terminals, so in program 05 do not select **LI2** or **LI4:** those types are for batteries with an RS485 cable. On this model, program **31** switches off the main output, while program 29 (factory for LIb 25.0 V) only switches off the second output. If you want to use more capacity, program 31 can be lowered to **24.0 V (** the recommended battery cut-off); then program 29 must be lower than 31, and program 12 not lower than 26.0 V (31 + 2 V according to the manual).

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