GUIDE · IN ENGLISH

MFUZOP battery 51.2 V 314 Ah 16.07 kWh

Model MF-48314S: connector panel, inverter connection, parallel connection



Real photo of the MFUZOP battery

Data from the case label	
Model	**MF-48314S**
Type	**lithium-ion battery** (Lithium ion Battery)
Rated voltage / capacity	**51.2 V / 314 Ah**
Energy	**16.07 kWh**
Max. charge / discharge current	**210 A / 210 A**
Peak charge / discharge current	**215 A / 2 s, 215 A / 2 s**
Parallel	**up to 15 pcs**
Communication	**RS485, CAN**
Life	**≥ 8000 cycles** at 25 °C, ≥ **3000** at 45 °C (to 70 % capacity)
Recommended charging temperature	**0...+55 °C**
Recommended discharging temperature	**−20...+60 °C**

Additional (not on the label)	
Chemistry	**LiFePO4,** 16 cells 3.2 V / 314 Ah (16S)
Dimensions	**453 × 260 × 879 mm**
Weight	**≈ 113 kg**
Protection rating	**IP20,** indoor use

What to do to work with an inverter

1. Connect power cables: “+” (12) to inverter BAT+, “−” (13) to inverter BAT−.
2. Link the battery comms port to the inverter’s BMS port: **RS485 (5)** if the inverter talks to the BMS via RS485, or **CAN (6)** if via CAN.
3. Switch on the breaker (15) and power button (14), then the inverter.
4. On the inverter, select lithium battery type with BMS link (menu item: see your inverter’s manual).

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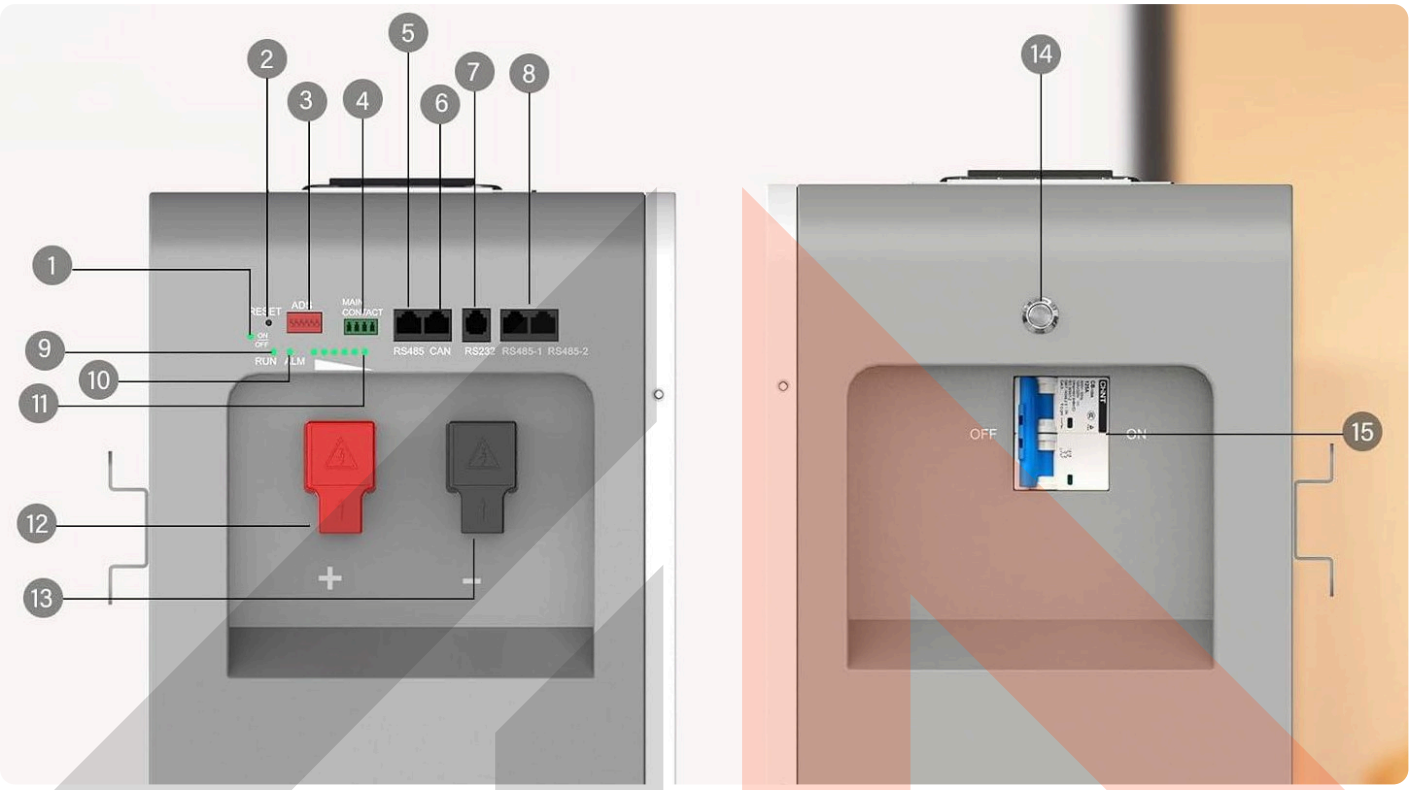
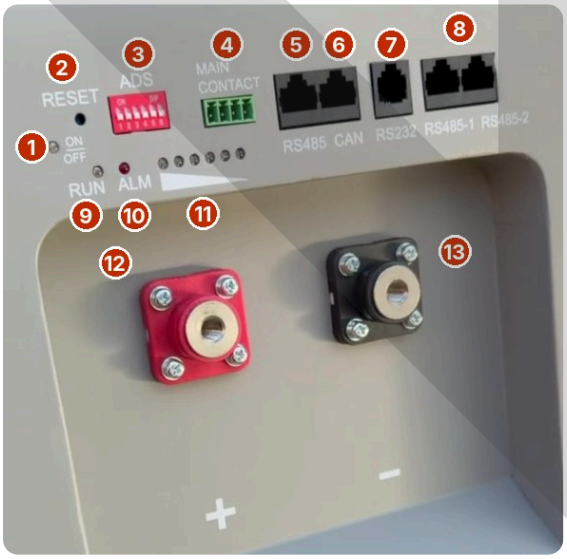
CONNECTOR PANEL

What is where on the battery panel

Manufacturer’s diagram numbered 1–15 and a real photo of the panel with the same numbers



Manufacturer’s diagram: left, the panel with connectors and terminals; right, the other side of the case with the power button (14) and breaker (15).



Real MFUZOP MF-48314S panel

Several batteries in parallel

- Per the label, **up to 15** batteries can be connected in parallel.
- The battery address is set with the **ADS (3)** switches.
- Master: address 1 (switch 1 ON), second: 2 (2 ON), third: 3 (1 and 2 ON). Daisy chain: RS485-2 of one → RS485-1 of the next (manufacturer’s manual, sections 4.5 and 4.7).

Display

The colour LCD on the case shows charge, cell voltages and temperatures, current and power; the inverter protocol is also selected there: protocol setting tab, RS485-PCS line, ← → and Set buttons (section 5.6).

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CONNECTOR PANEL

Purpose of each element

	Panel label	What it is	What to connect / why
1	**ON / OFF**	Power-on LED	—
2	**RESET**	Reset button	—
3	**ADS, DIP 1–6**	DIP address switches	Battery address
4	**MAIN CONTACT**	Dry (volt-free) contact	alarm signal or generator start
5	**RS485**	RS485 port	Comms cable to the inverter's BMS port, if the inverter talks to the BMS via RS485
6	**CAN**	CAN port	Comms cable to the inverter's BMS port, if the inverter talks to the BMS via CAN
7	**RS232**	RS232 port	—
8	**RS485-1, RS485-2**	Two RS485 ports	Link between batteries (parallel)
9	**RUN**	Run LED	—
10	**ALM**	Alarm LED	—
11	**(gauge)**	State-of-charge indicator	—
12	**«+»**	Positive terminal	"+" power cable to inverter BAT+ terminal
13	**«–»**	Negative terminal	"–" power cable to inverter BAT– terminal
14	**—**	Power button (main switch)	—
15	**OFF / ON**	Circuit breaker (protective)	—

RS485 (5) and CAN (6) ports: for the inverter link (label: RS485, CAN comms). Port pinouts are not available in published sources.



Case label