GUIDE · IN ENGLISH

Battery 51.2 V 100 Ah 5.12 kWh rack-mount with display

3U rack LiFePO4 battery with touch display: panel, inverter connection, comms protocol



There is no manufacturer's manual for this battery. Specifications are from the product page. Wiring and inverter comms protocol are the seller's **data *,** by analogy with DATOU BOSS 51.2 V 100 Ah 5.12 kWh (same class: 51.2 V, 100 Ah, 3U rack, RS485 and CAN ports).

Technical specifications

Product page data	
Chemistry	LiFePO4, built-in BMS
Rated voltage / capacity	**51.2 V / 100 Ah**
Energy	**5.12 kWh**
Max. charge / discharge current	**100 A**
Charge / cut-off voltage	**58.4 V / 40 V**
Life	**4500 cycles (≥** 80 % capacity)
Temperature	charge **0…60 °C,** discharge **−20…60 °C**
Communication	RS485, CAN (inverter), RS232 (PC, service), Wi-Fi and Bluetooth (phone app)
Parallel	**up to 15 pcs**
Case	metal, rack **3U; 460 × 442 × 140 mm, 43 kg**
Included (per photo)	power cable, inverter cable, battery link cable, terminal covers, rack brackets

What to do to work with an inverter

1. Power cables: battery "+" (2) → inverter BAT+ via DC protection per the inverter manual, "−" (1) → inverter BAT−. Check polarity with a tester before connecting.
2. RJ45 comms cable: the battery's RS485 port (left, paired with CAN) or CAN → inverter BMS port* (table on p. 3).
3. Turn on the battery with the ON/OFF button (6), then the inverter.
4. Same protocol on the battery and inverter: Pylon or Growatt* (p. 3).

One battery gives up to ≈ 5.1 kW (100 A × 51.2 V)*. More with several batteries in parallel.

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CONNECTOR PANEL

What is where on the battery panel

Marks 1–8 as in the photo; ports are labelled on the case



	What it is	What to connect / why
1	**Negative terminals “–” (2 pcs)**	“–” power cable to inverter BAT– terminal
2	**Positive terminals “+” (2 pcs)**	“+” power cable to inverter BAT+ (via DC protection per the inverter manual)
3	**Handles**	Carrying and rack mounting
4	**Dry contact (DRY C ONT AC T)**	Not needed for the inverter connection*
5	**Touch display**	BMS status: charge (SOC), state, current, voltage, info
6	**ON/OFF button**	Turns the battery on and off
7	**SOC**	State-of-charge LEDs
8	**RUN / ALM**	Run and alarm LEDs
	RESET	BMS reset button
	RS485 (left, paired with CAN)	Comms cable to the inverter’s BMS port (RS485)*
	CAN	Comms cable to the inverter if it uses CAN*
	RS232	Computer, service
	RS485 (right pair)	Link between batteries in parallel*

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INVERTER LINK

Protocol: two options, as on DATOU BOSS 5.12

Battery and inverter must use the same protocol: Pylon (Pylontech) or Growatt*. The battery protocol is set in the BMS settings, on the touch display (5) or in the phone app (Parameter settings tab)*. The manufacturer did not give the app name or exact menu item: if you cannot find it, contact the seller.

Battery protocol*	JSDsolar J6500HC (item 44)	POWGROW SMS-6.5KP (item 44)	GSIKE 6.2 kW (program 05)	GSIKE 11 kW (F2-01)
Pylon (Pylontech)	**PYL**	**PYL**	**Li2**	**Li2**
Growatt	**GRO**	**GRO**	—	—

Where the cable goes and what else to set on the inverter

Inverter	Inverter port	Battery port	Also in inverter menu	No BMS link
JSDsolar J6500HC	BMS (RJ45)	RS485 or CAN*	17 = FEL, 45 = AtO	warning 56
POWGROW SMS-6.5KP	BMS (RJ45)	RS485 or CAN*	17 = FEL, 45 = AtO	warning 56
GSIKE 6.2 kW	RS485 (BMS)	RS485 only* (no CAN on inverter)	—	warning 19
GSIKE 11 kW	RS485 (BMS)	RS485 only* (no CAN on inverter)	—	warning 4B

How to change a menu item: JSDsolar J6500HC and POWGROW SMS-6.5KP: hold ENTER 2 s; GSIKE 6.2 kW: ENTER 3 s; then UP / DOWN: item, ENTER: change and save, ESC: exit. Details for each inverter are in the separate PDFs “Connection … + Battery 51.2 V 100 Ah 5.12 kWh rack with display” on the inverter pages.

> No BMS link? Check the RJ45 cable and port (GSIKE: RS485 only), try the battery’s other port (RS485 or CAN) for JSDsolar and POWGROW, and check the battery protocol matches the inverter (Pylon → PYL / Li2, Growatt → GRO)*.

Several batteries in parallel

- In parallel: **up to 15** batteries (per product page).
- Between each other with an RJ45 cable (battery link cable included) via the **RS485 pair on the right*.**
- Inverter cable from one battery only*.
- Before linking, charge each battery separately so the voltages are equal*.
- No address DIP switches are visible on the panel; the manufacturer did not say how the address is set: for parallel use, contact the seller *.

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