GUIDE · IN ENGLISH

DATOU BOSS battery 51.2 V 100 Ah 5.12 kWh

3U rack LiFePO4 battery: connector panel, inverter connection, parallel connection



Technical specifications

Manufacturer data (DATOUBOSS)	
Model (part no.)	**SP-DT-3U-48100,** 3U rack (19″)
Chemistry	**LiFePO4,** Grade A cells
Rated voltage / capacity	**51.2 V / 100 Ah**
Energy	**5.12 kWh**
BMS	**100 A**
Max. load power	**5.12 kW**
Panel breaker	**125 A**
BMS protections	deep discharge, overcharge, overcurrent, short circuit, low/high temperature
Communication	**RS485, CAN** (inverter), **RS232, RS485** (PC), **Bluetooth and Wi-Fi** (app)
Parallel	**up to 15 pcs** (up to 76.8 kWh)
Dimensions	**483 × 521 × 110 mm**

Data from the product page and DATOUBOSS images (part no. SP-DT-3U-48100).

What to do to work with an inverter

1. Connect power cables: “+” (D) to inverter BAT+, “−” (C) to inverter BAT−.
2. Link the battery comms port to the inverter’s BMS port: **RS485 (N)** if the inverter talks to the BMS via RS485, or **CAN (O)** if via CAN.
3. Switch on the breaker (E) and power button (F), then the inverter.
4. On the inverter, select lithium battery type with BMS link (menu item: see your inverter’s manual), and in the JBD BMS app the same protocol (Parameter → Inverter Protocol).

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CONNECTOR PANEL

What is where on the battery panel

DATOUBOSS diagram, marks A–R



Several batteries in parallel

- Up to **15** batteries can be connected in parallel.
- Give each battery its own unique address with the **ADS (I)** switches.
- Batteries are linked with RJ45 cables via the **RS485 IN / RS485 OUT (Q)** ports.
- Connect the inverter comms cable to one battery, port RS485 (N) or CAN (O).

JBD BMS app (Bluetooth)

iPhone
App Store

Android
Google Play

1. Turn on the battery: **125 A (E)** breaker to ON, then the **POWER (F)** button.
2. Scan the QR code and install the **JBD BMS** (app, or search “JBD BMS” in the App Store or Google Play).
3. Turn on Bluetooth on the phone, open the app, find the battery among nearby devices and allow Bluetooth.
4. Inverter protocol: **Parameter → Inverter Protocol → Pylon** or **Growatt.** Select the matching protocol on the inverter: table on p. 3.

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CONNECTOR PANEL

Purpose of each element

	What it is	What to connect / why
A	**Handles**	For carrying and rack mounting
B	**Grounding**	Case earth wire
C	**Negative terminals "–" (2 pcs)**	"–" power cable to inverter BAT– terminal
D	**Positive terminals "+" (2 pcs)**	"+" power cable to inverter BAT+ terminal
E	**125 A breaker (ON / OFF)**	Switches the power output to the terminals on and off
F	**ON/OFF power button**	Turns the battery BMS on and off
G	**ON/OFF indicator**	Lit when the BMS is on
H	**RESET**	BMS reset button
I	**ADS (ADD), DIP 1–6**	Battery address in parallel connection
J	**RUN**	Run LED
K	**ALM**	Alarm LED
L	**MAIN CONTACT**	Dry contact
M	**SOC**	State-of-charge LEDs
N	**RS485 (RS485-1)**	Comms cable to the inverter's BMS port if the inverter uses RS485
O	**CAN**	Comms cable to the inverter if it uses CAN
P	**RS232**	Computer connection
Q	**RS485 IN / RS485 OUT**	Link between batteries in parallel
R	**Mounting ears**	Mounting in a 19-inch rack

RS485 (N) and CAN (O) ports: for the inverter. **RS485 IN / OUT (Q):** only between batteries. **RS232 (P):** for a computer.

Inverter comms protocol: two options

The protocol is the same on both sides: in the JBD BMS app (**Parameter → Inverter Protocol)** and in the inverter menu.

JBD BMS app	JSDsolar J6500HC (item 44)	GSIKE 11 kW (F2-01)	GSIKE 6.2 kW (program 05)
Pylon (default)	**PYL**	**Li2**	**Li2**
Growatt	**GRO**	—	—