GUIDE · IN ENGLISH

DATOU BOSS battery 25.6 V 314 Ah 8.03 kWh

Wall-mounted LiFePO4 battery: connector panel, connection to the inverter, parallel connection



DATOUBOSS manufacturer image

Manufacturer data (DATOUBOSS)	
Part no.	**SPB12D24314A01EU,** wall-mounted
Chemistry	**LiFePO4**
Rated voltage / capacity	**25.6 V / 314 Ah**
Energy	**8.03 kWh**
Continuous charge / discharge current	**150 A / 150 A**
Charge / discharge cut-off voltage	**29.2 V / 21.6 V**
Charge / discharge cut-off current	**160 A / 160 A**
Internal resistance	**≤ 6.9 mΩ**
Life	**≥ 8000 cycles** (80 % SOH, 25 °C)
Charge / discharge temperature	**0…+55 °C / −20…+55 °C**
Communication	**RS485, CAN**, **RS232**, **Bluetooth** (app)
Parallel	**up to 15 pcs**
Protection rating	**IP20**
Dimensions (L × W × H)	**355 × 260 × 565 mm**
Weight	**≤ 61 kg**

Data from the official DATOUBOSS 24V 314Ah LiFePO4 product page (8 kWh, 150A BMS) and the manufacturer's images.

What to do to work with an inverter

1. Fix the battery to the wall with the bracket (N) from the kit.
2. Connect the power cables: "+" (K) to the inverter BAT+, "−" (J) to the inverter BAT−.
3. With the comm cable from the kit, connect the **RS485/CAN (G)** port to the inverter BMS port. This port carries both RS485 and CAN (pinout on p. 3).
4. Switch on the breaker (I) and the POWER button (L), then the inverter.
5. On the inverter, select lithium battery type with BMS link (menu item: see your inverter's manual).

What is in the kit

Battery — 1 · wall bracket — 1 · anchor bolts — 8 · flat-head screws — 3 · screws — 2 · comm cable — 1 · "+" and "−" power cables — 1 set · computer cable — 1 · user manual — 1.

Per the manufacturer's image "The package includes the following items".

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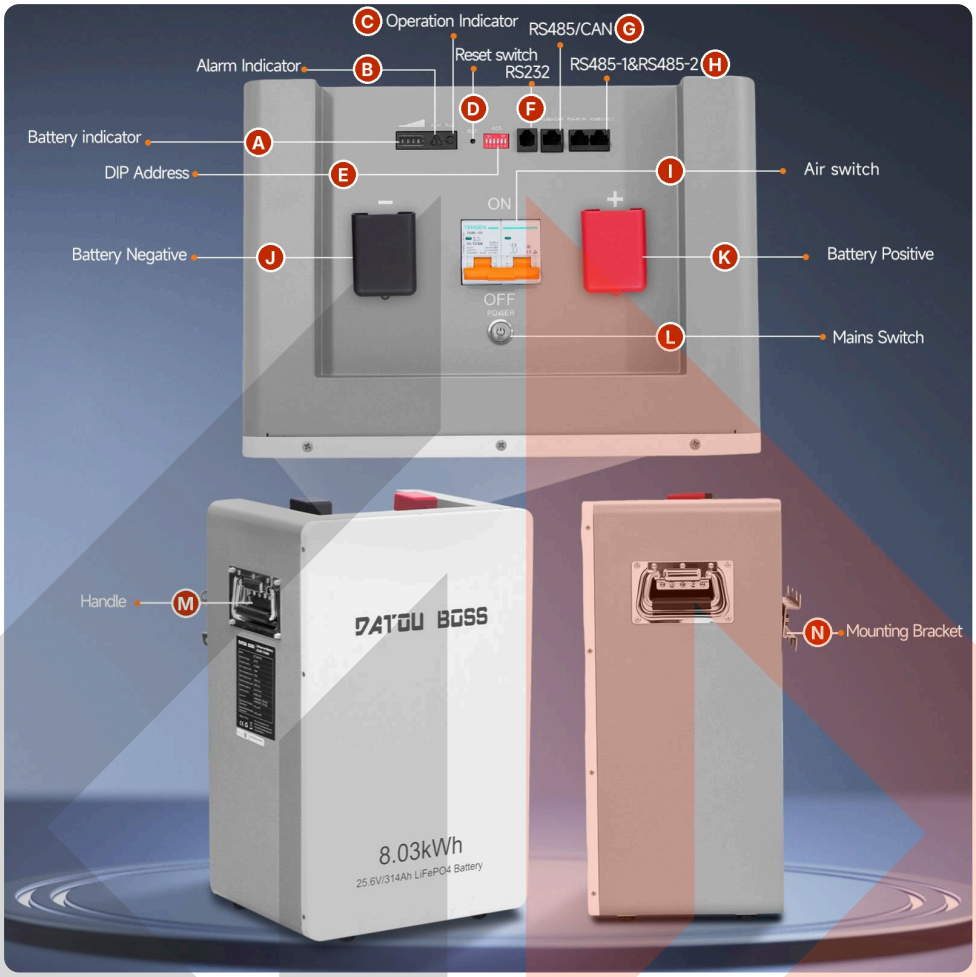
CONNECTOR PANEL

What is where on the battery panel

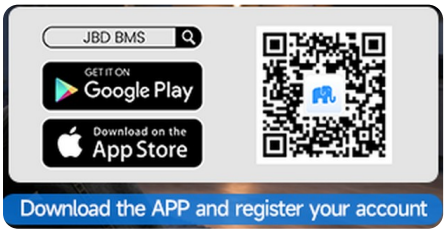
DATOUBOSS manufacturer's diagram, labels A–N added for the table on p. 3



Several batteries in parallel

- Up to **15** batteries can be connected in parallel.
- Batteries are linked to each other with RJ45 cables via the **RS485-1 / RS485-2 (H)** ports; the manufacturer's table calls them RS485-IN / RS485-OUT.
- Each battery's address is set with the **DIP Address (E)** switches. The available sources have no address table: see the paper manual in the kit.

App



The battery has **Bluetooth:** charge level, voltages and status are visible in the **JBD BMS** app (Google Play / App Store, QR code from the manufacturer's image).

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CONNECTOR PANEL

Purpose of each element

	Label on diagram	What it is	What to connect / why
A	**Battery indicator**	State-of-charge indicator	—
B	**Alarm Indicator (ALM)**	Alarm LED	—
C	**Operation Indicator (RUN)**	Run LED	—
D	**Reset switch (RST)**	Reset button	—
E	**DIP Address (ADS), DIP 1–6**	Battery address switches	Address in parallel connection
F	**RS232**	RS232 port	Connection to a computer (PC cable included)
G	**RS485/CAN**	RS485 and CAN comm port	Comm cable to the inverter BMS port or a computer
H	**RS485-1 & RS485-2 (RS485-IN / RS485-OUT)**	Two parallel comm ports	Link between batteries in parallel
I	**Air switch, ON / OFF**	Circuit breaker 125 A	—
J	**Battery Negative «–»**	Negative terminal	"–" power cable to inverter BAT– terminal
K	**Battery Positive «+»**	Positive terminal	"+" power cable to inverter BAT+ terminal
L	**Mains Switch (POWER)**	Main power button	—
M	**Handle**	Handles	For carrying
N	**Mounting Bracket**	Wall bracket	Fixing the battery to the wall

RS485/CAN (G) port: for the inverter. **RS485-1 / RS485-2 (H):** between batteries only. **RS232 (F):** for a computer.

Comm port pinout

Pin	**RS232 (F)** to computer	RS485/CAN (G) to computer or inverter	RS485-IN / RS485-OUT (H) parallel link, ×2
1	NC: not connected	RS485-B1	RS485-B2
2	NC: not connected	RS485-A1 *	RS485-A2
3	TX (transmit)	VSS (ground)	IN(L) / OUT(R)
4	RX (receive)	CANH1	NC: not connected
5	VSS (ground)	CANL1	NC: not connected
6	NC: not connected	VSS (ground)	VSS (ground)
7	—	RS485-A1 *	RS485-A2
8	—	RS485-B1	RS485-B2

* The manufacturer's table says "NCRS485-A1" for pins 2 and 7 of port CAN1.

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