GUIDE · IN ENGLISH

BRAUN Power battery 51.2 V 628 Ah 32 kWh

Connector panel, inverter connection and setup of the built-in JK BMS via the app



BRAUN 51.2V 628Ah 32KWh cabinet, on wheels

Parameters from the manufacturer's manual	
Model	**51.2V628AH** (Braun Power, «Panda»)
Chemistry, cells	**LiFePO4, 1P16S**
Rated voltage	**51.2 V**
Operating voltage	**43.2–58.4 V**
Capacity / energy	**628 Ah / 32 153 Wh**
Charge / discharge cut-off voltage	**58.4 V / 43.2 V**
Recommended current	**50 A**
Maximum current	**195 A**
Operating temperature	**−20...+60 °C**
Dimensions	**800 × 630 × 430 mm**
Net weight	**236 kg**

Data from the "Basic Product Parameters" page of the Shenzhen Braun Power Energy Storage Co., Ltd. manual.

What to do to work with an inverter

1. Connect power cables P+ and P− to the inverter's battery terminals (p. 2).
2. Link the cabinet's **RS485A** port to the inverter's BMS port with a straight RJ45 cable.
3. In the JK BMS app, select the **UART1** port protocol: Pylontech or Growatt (p. 3–4).
4. Select the same protocol on the inverter. For GSIKE: Pylontech only: Li2 (p. 4).

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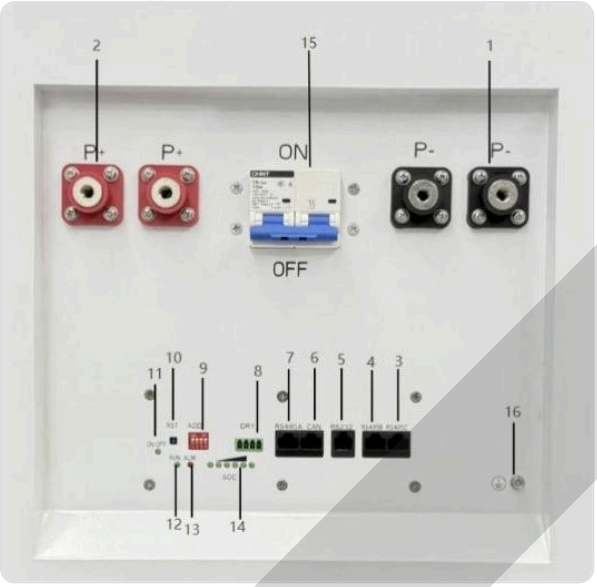
CONNECTOR PANEL

What is where on the cabinet panel

Numbers in the photo match the manufacturer's "Battery Interface Panel Definition" table



Two P+ and two P− terminals. The inverter's positive cable goes to P+ (red), negative to P− (black).

Inverter comms cable: into port **7 RS485A** (or **6 CAN** if the inverter talks to the BMS over CAN). Ports 3 and 4 are only for linking cabinets.

Address (9 ADD): for one cabinet: 0, all switches OFF.

Purpose of connectors, buttons and LEDs

	Label	What it is	What to connect
1	**P−**	Battery negative terminal	"−" power cable to inverter BAT− terminal
2	**P+**	Battery positive terminal	"+" power cable to inverter BAT+ terminal
3	**RS485C**	Parallel link	Cable to the next cabinet when there are several
4	**RS485B**	Parallel link	Cable from the previous cabinet when there are several
5	**RS232**	RS232 comms port	—
6	**CAN**	Link to the inverter	Inverter BMS CAN port, if the inverter talks over CAN
7	**RS485A**	Link to the inverter	Inverter BMS port via straight RJ45 cable (for GSIKE 6.2 and 11 kW, use this one)
8	**DRY**	Dry contact	BMS signal to an external device
9	**ADD**	DIP address switches	One cabinet: address 0, all switches OFF
10	**RST**	Reset button	—
11	**ON/OFF**	Power LED	—
12	**RUN**	Run LED	—
13	**ALM**	Alarm LED	—
14	**SOC**	State-of-charge LEDs	—
15	**ON/OFF**	Battery breaker (switch)	Switches the battery output to the terminals on and off
16	**GND**	Grounding	Cabinet earth wire

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BUILT-IN BMS · JK BMS APP

BMS setup from your phone

The cabinet has a JK BMS board. The inverter comms protocol is set in the app via Bluetooth.

App

Android

Open Google Play and search for “JK BMS” and install the app from the JK BMS developer. The app is free.

iPhone

Open the App Store and search for “JK BMS” and install the app from the JK BMS developer. The app is free.

Step by step

Step 1 **Connect to the battery**

Install the app, turn on Bluetooth on your phone and stand next to the cabinet. Open the app, find your battery in the list and connect.

Step 2 **Login**

Android: the app asks for a password: enter **1234**

iPhone: usually no password needed.

Step 3 **Open the settings**

At the bottom tap the **Settings** tab. To change settings, the app asks for the admin password:

888888

Step 4 **Select the UART1 protocol**

Scroll to the **UART1 Protocol No.** line, tap the number field, choose the protocol in the **Select UART Protocol** window and tap **OK** to the right of the line:

014 — (9600) PYLON
Pylontech protocol

on a GSIKE inverter: **Li2**

006 — Growatt BMS
Growatt protocol

GSIKE: not suitable, Li2 only

Step 5 **Check the link**

Select the same protocol on the inverter (table on p. 4) and make sure the inverter shows BMS data.

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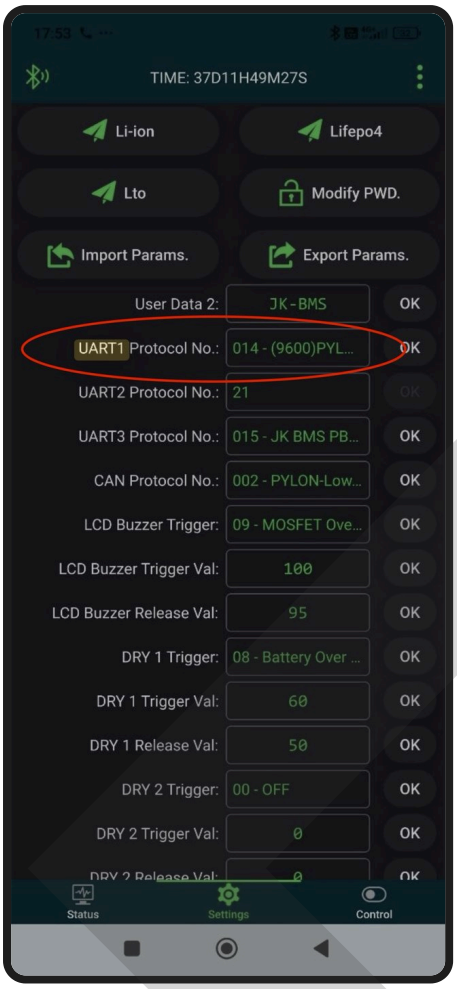
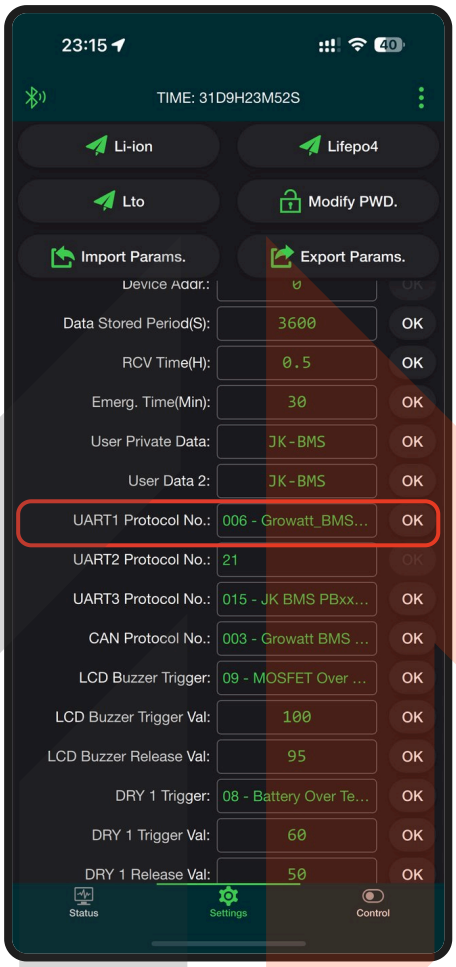
APP SCREENSHOTS

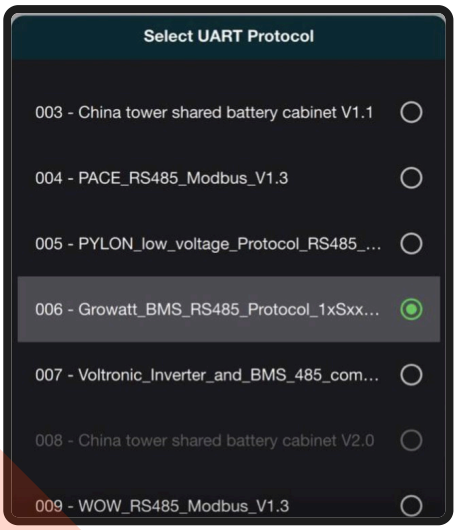
What it looks like on the phone



Android, Settings tab. UART1 Protocol No. = **014 — (9600) PYLON** (circled). OK button on the right.



iPhone, Settings tab. UART1 Protocol No. = **006 — Growatt BMS.** Device Addr. = 0 (one cabinet).



UART1 protocol selection window. Marked 006 Growatt. The list scrolls: 014 — (9600) PYLON is lower down.

What to select on the inverter

BMS: UART1	GSIKE 11 kW, item F2-01	GSIKE 6.2 kW, program 05
014 — (9600) PYLON	**Li2**	**Li2**
006 — Growatt BMS	—	—

GSIKE inverters talk to the BMS only via RS485, so it is UART1 that is set. The cable is an ordinary straight RJ45 patch cord from the cabinet's RS485A port to the inverter's BMS port.

Several cabinets in parallel

- One cabinet is the master: address **0.** Give the others different addresses 1–15 with the ADD switches.
- Cabinets are linked to each other via the RS485B / RS485C ports.
- The inverter comms cable goes only to the master cabinet. With several inverters in parallel, the BMS cable goes to just one of them, and Li2 is selected only on it.

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