KIT CONNECTION GUIDE · IN ENGLISH

Kit GSIKE 6.2 kW 48 V + DATOU BOSS 51.2 V 100 Ah 5.12 kWh

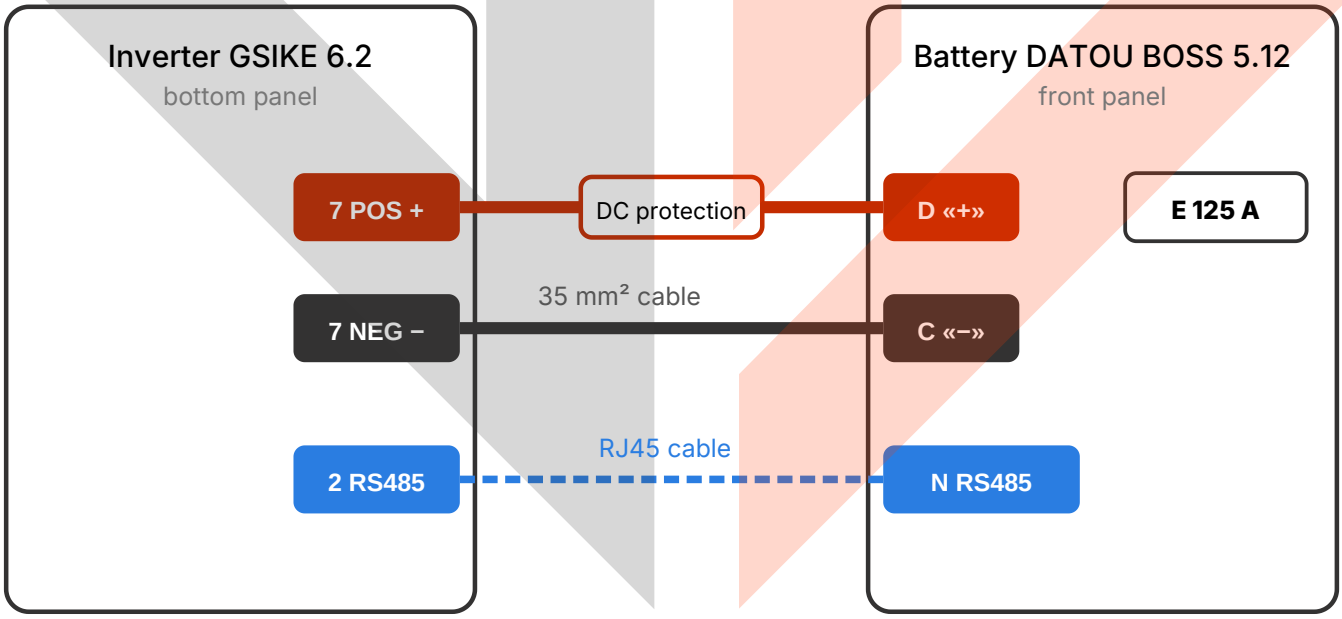
What connects to what, in which order to switch on and what to set

Kit contents

	Inverter GSIKE 6.2 kW	Battery DATOU BOSS
What it is	Hybrid inverter 6.2 kW, 48 V (GSK-6.2KW-48V-WIFI)	LiFePO4, 51.2 V 100 Ah, 3U rack
Power / energy	**6.2 kW**	**5.12 kWh,** max. load **5.12 kW**
Battery voltage	**48 V**	**51.2 V**
Current	max. battery current **140 A;** charging: program 02 (default 60 A)	BMS **100 A**
BMS communication	**RS485 (BMS) (**RJ45) port, battery type in program **05**	**RS485 (N)** port; also CAN (O)
Battery protection	separate DC protection between the battery and the inverter	**125 A** breaker on the panel

Important about power. One battery delivers up to **5.12 kW (**BMS 100 A), while the inverter is rated for 6.2 kW. When the inverter runs on the battery only, keep the load up to 5.12 kW or add more batteries in parallel (up to 15 units).

Connection diagram



Numbers 2 and 7 are the connectors on the inverter's bottom panel; letters C, D, E, N are on the battery panel (as in the separate manuals for each device).

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Where these connectors are



Inverter: 2 — RS485 (BMS) port, 7 — battery cable entry (POS + / NEG –). The battery terminals are under the cover.



Battery: "–" (C), "+" (D), 125 A breaker (E), power button (F), RS485 port (N).

Connection procedure

1. The inverter is off, the battery breaker (E) is OFF.
2. Negative cable: battery "–" terminal (**C)** → inverter **NEG –** terminal (entry 7).
3. Positive cable via a separate **DC protection:** "+" terminal (**D)** → inverter **POS +** terminal (entry 7). Cable 35 mm² , tightening torque 2–3 N·m. Check the polarity with a tester before connecting.
4. "Pin to pin" RJ45 communication cable: inverter **RS485 (2)** port → battery **RS485 (N)** port.
5. Switch on the battery breaker (E) and power button (F), then the inverter.
6. In the JBD BMS app, select the battery protocol (Parameter → Inverter Protocol → **Pylon** or **Growatt),** and in inverter program **05** select **Li2** or **Li4** accordingly. If communication is established, the battery icon lights up on the display.

Protocol: the same on the battery and the inverter

JBD BMS app (Parameter → Inverter Protocol)	GSIKE 6.2 kW, program 05
Pylon (default)	**Li2 —** PYLON US2000 protocol
Growatt	**Li4 —** manufacturer's standard protocol of the inverter

Program **02 —** maximum charge current: no higher than the battery BMS current **100 A (**default 60 A). When there is BMS communication, the inverter adjusts the charge voltage and current itself according to the BMS data.

How to change a program: hold ENTER for 3 s, use UP / DOWN to select the program number, ENTER to confirm, ESC to exit.

Warning 19 — no communication with the BMS. Check the RJ45 cable, that it is in the battery's RS485 (N) port, and that the protocol in the JBD BMS app matches program 05 (Pylon → Li2, Growatt → Li4). The app and QR codes are in the battery manual.

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