KIT CONNECTION GUIDE · IN ENGLISH

Kit GSIKE 11 kW 48 V + BRAUN Power 51.2 V 628 Ah 32 kWh

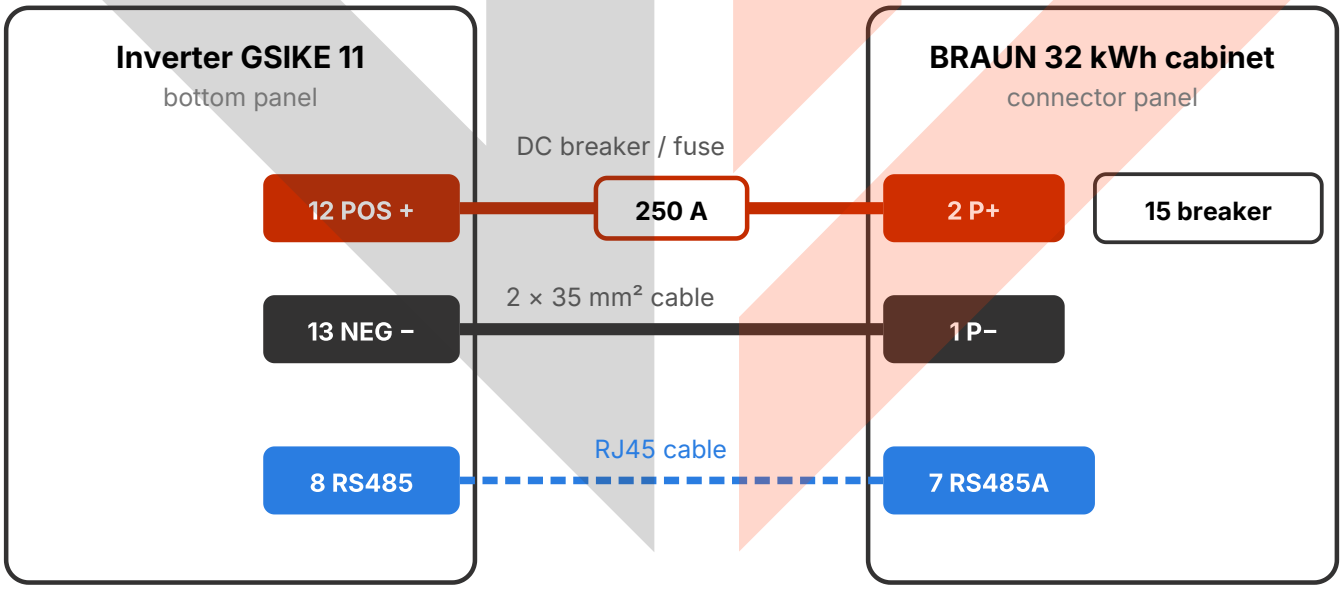
What connects to what, in which order to switch on and what to set in the inverter

Kit contents

	Inverter GSIKE 11 kW	Battery BRAUN Power
What it is	Hybrid inverter 11 kW, 48 V, Wi-Fi (GSK-11KP-48V-WIFI)	LiFePO4 (1P16S), 51.2 V 628 Ah, cabinet on wheels
Power / energy	**11 kW**	**32 kWh**
Battery voltage	**48 V**	**51.2 V**
Current	max. battery current **220 A;** charging: F2-09 (default 80 A)	recommended current **50 A,** max. **195 A**
BMS communication	**RS485 (BMS) (8),** RJ45 port; battery type: **F2-01.** There is no CAN port for the BMS	**RS485A (7)** port; also CAN (6)
Battery protection	separate DC breaker **250 A / 60 V (**the inverter kit includes a battery fuse)	breaker (15) on the cabinet panel

Important about power. The cabinet delivers up to 195 A (≈ 10 kW at 51.2 V), while the inverter is rated for 11 kW. When the inverter runs on the battery only, keep the load up to ≈ 10 kW. The inverter can deliver full power when there is grid or solar power.

Connection diagram

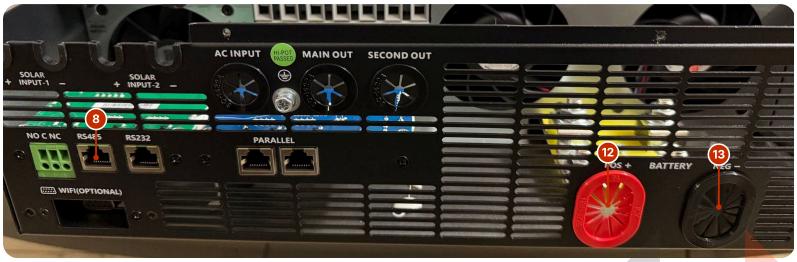


Numbers 8, 12, 13 are the connectors on the inverter's bottom panel (as in the photo on the next page and in the inverter manual); battery markings as in its manual. Connect the grid, loads and solar panels according to the inverter manual.

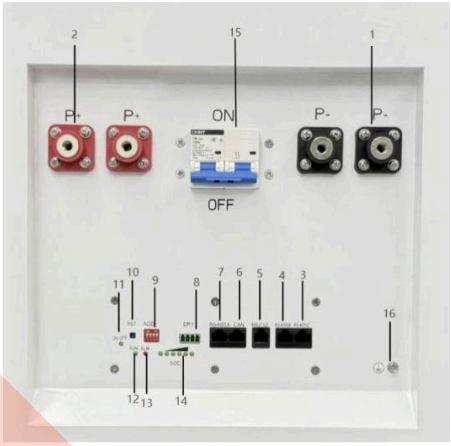
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Where these connectors are



Inverter: photo of the underside: 8 — RS485 (BMS) port, 12 — battery “plus” cable entry (POS +), 13 — battery “minus” cable entry (NEG –). The terminals are under the terminal compartment cover.



Battery: P– (1) and P+ (2), two terminals each; RS485A (7) for communication with the inverter; CAN (6); RS485B / RS485C (4, 3) only between cabinets; ADD address switches (9): for one cabinet 0, all OFF; breaker (15), earth (16).

Connection procedure

1. The inverter is off; the battery breaker and the DC breaker on the battery cable are off.
2. Negative cable: battery terminal **1 P–** → inverter **NEG –** terminal (13).
3. Positive cable via a separate 250 A / 60 V DC breaker: battery terminal 2 P+ → inverter POS + terminal (12). Cable 2 × 35 mm², tightening torque 10–12 N·m. Check the polarity with a tester before switching on.
4. “Pin to pin” RJ45 communication cable (included with the inverter): inverter **RS485 (BMS) (8)** port → battery **7 RS485A** port.
5. Check that the cabinet’s ADD address switches (9) are all OFF (address 0). Switch on the cabinet breaker (15), then the inverter.
6. In the JK BMS app (Bluetooth): Settings tab → UART1 Protocol No. → 014 — (9600) PYLON or 006 — Growatt BMS → OK. Passwords and screenshots are in the cabinet manual.
7. In the inverter, select the same protocol in **F2-01** (table below). If communication is established, the “LI” icon flashes on the display.

Protocol: the same on the battery and in the inverter

Battery	What it is	What to choose for this kit
JK BMS: UART1 Protocol No. = 014 — (9600) PYLON	Battery type, F2-01	**Li2 —** PYLON US2000 protocol
JK BMS: UART1 Protocol No. = 006 — Growatt BMS	Battery type, F2-01	**Li4 —** manufacturer’s standard protocol of the inverter
Charging current	F2-09 (solar + grid)	**50 A —** the cabinet’s recommended current according to the manufacturer’s manual (default 80 A)
Current from the grid	F2-10	default **60 A;** must be lower than F2-09

How to enter the menu: hold ENTER for 3 s and the F0–F4 group selection opens; select group F2 and program 01. When there is BMS communication, the inverter adjusts the charge voltage and current itself according to the BMS data, and the thresholds F2-05…F2-08 are set in percent of charge (factory 20 %, 30 %, 15 %, 10 %).

Warning 4B — communication with the BMS is broken. Check that the RJ45 cable is in the cabinet’s RS485A (7) port, address ADD = 0, and that the UART1 protocol in the JK BMS app matches F2-01 (014 → Li2, 006 → Li4).

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