QUICK CONNECTION · IN ENGLISH

KIT

DATOU BOSS 3.3kW + battery DATOU BOSS 8 kWh (with BMS link)



Seller's short guide based on the DT-2433M manual. The full inverter manual is a separate file on the product page.

1 What is included in the system

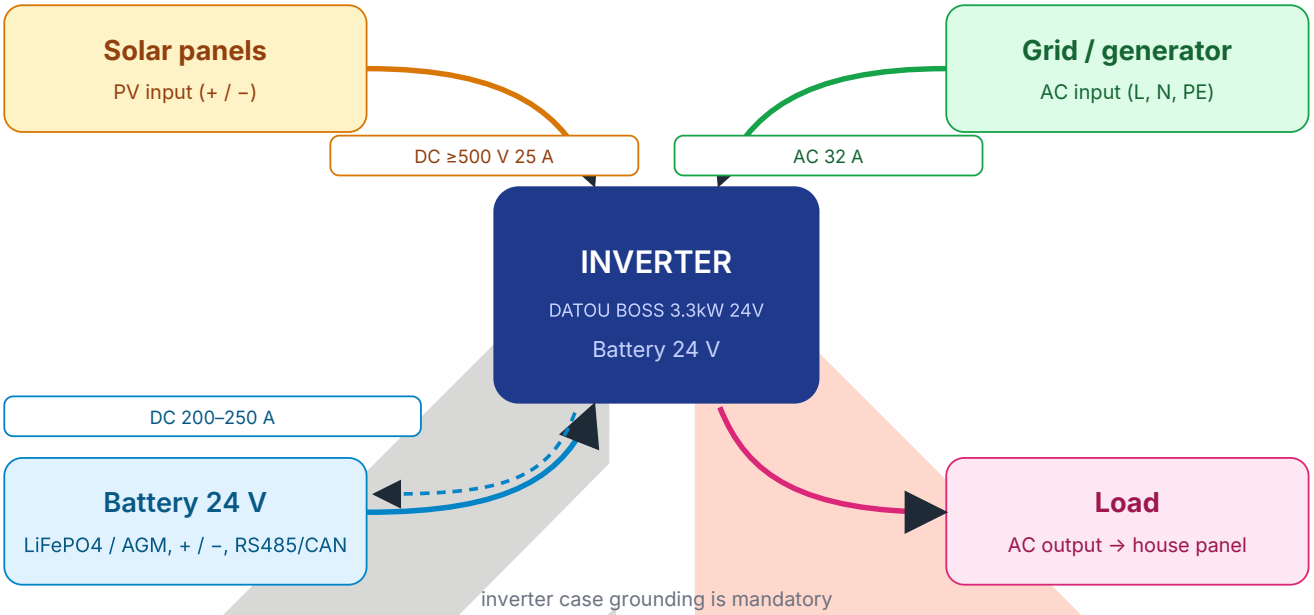




- Inverter DATOU BOSS DT-2433M, 3.3 kW, 24 V
- Battery DATOU BOSS 25.6 V 314 Ah (8.03 kWh), LiFePO4, BMS with RS485/CAN
- Battery power cables (35 mm² or more), DC breaker 200–250 A
- RJ45 communication cable (from the battery port to the inverter’s RS485-2 port)

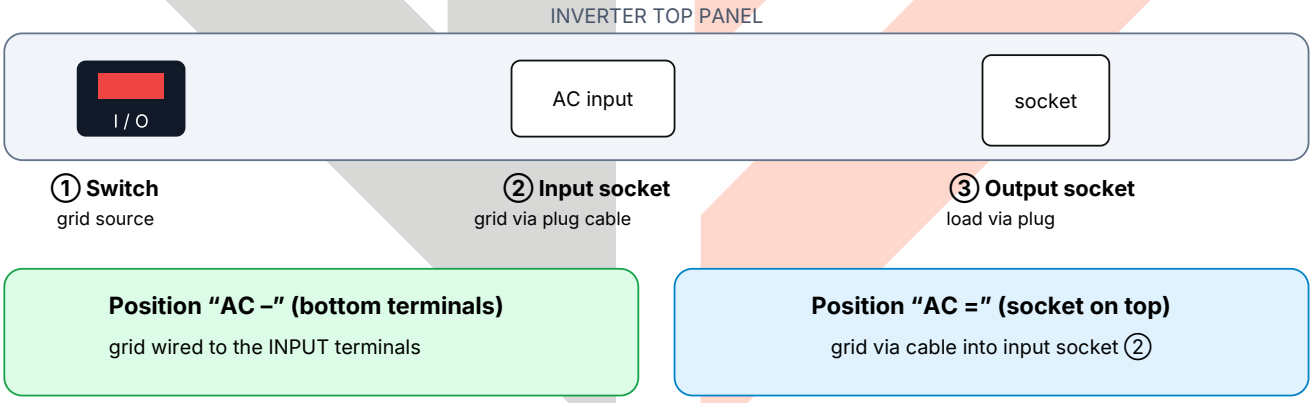
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2 Wiring diagram



1. Power: battery plus → DC breaker → inverter BAT+ terminal; battery minus → BAT−. Wires of equal length, as short as possible.
2. Communication: RJ45 cable from the battery RS485/CAN port → into the RS485-2 (BMS) port on the left side of the inverter. Port RS485-1 is for Wi-Fi: do not plug the BMS in there.
3. With two or more batteries, connect them in parallel, each with its own DIP address; the communication cable to the inverter comes only from the master (see the battery manual).

3 Grid source switch on top



How the grid is connected	Switch position ①	Note
Wires to the INPUT terminals at the bottom (fixed installation)	«AC –»	Top input socket not used
Plug cable into top input socket ② (portable setup)	«AC =»	Do not connect the bottom INPUT terminals
No grid at all (solar + battery only)	any	Also set A14 = UPS, A0 = PbG

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⚠ Switch ① ONLY selects where the inverter gets the grid from. It does not turn the inverter on: use the side switch (ON/OFF) for that.

⚠ Switch only with the grid off (breaker off or plug pulled). Otherwise there may be a current surge.

⚠ Never feed the grid to both the terminal block and the input socket at the same time.

⚠ Output socket ③ on top and the OUTPUT terminals at the bottom are the same backed-up output. Total load: up to 3300 W.

⚠ If the grid is present but the inverter does not "see" it (no AC on the display), the switch is most likely in the wrong position.

4 Switching on and off

Switching on

1. Check the polarity of the battery and panels, and the grounding.
2. Switch on the battery (button/breaker), then the DC breaker between battery and inverter.
3. Set switch ① to the correct position (see above).
4. Turn on the ON/OFF switch on the side of the inverter: the display lights up and the output voltage appears a few seconds later.
5. Enter the settings from the table.
6. Switch on the grid (breaker or plug), then the PV breaker.
7. Connect loads gradually.

Switching off

1. Switch off the loads.
2. Set the ON/OFF switch to OFF (the output goes off).
3. Switch off the PV and grid breakers (or unplug).
4. Switch off the battery DC breaker, then the battery itself.
5. Wait 5 minutes before working on the terminals.

5 Settings (hold ENTER 2 s → UP/DOWN → ENTER)

Set A17 first, then the rest. Change the factory defaults to these values:

Item	Setting	Set to	Explanation
A17	Battery type / protocol	PYL	**BMS communication over RS485 (Pylon). If error 63 appears, try the other PYL option**
A18	BMS address	001	
A0	Output priority	PbG	**House on solar + battery, grid as backup**
A10	Charging priority	SNU	**Solar + grid; CSO: grid only without solar**
A12	Grid charging current	50 A	**Up to 80 A allowed**
A13	Max. charge current	100 A	**Battery allows 150 A; 60–100 A extends its life**
A14	Grid input range	UPS	**APL: for a generator or a poor grid**
A15	Mode	dIS	**No export to the grid**

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Item	Setting	Set to	Explanation
A23	Stop charging, SOC	100%	
A22	Grid → battery, SOC	80%	**Return to battery**
A20	Return after shutdown, SOC	20%	
A21	Battery → grid, SOC	15%	**Switch to grid**
A19	Shutdown by SOC	10%	**Deep discharge protection**
A24	Restart after discharge	bRE	
A8 / A9	Frequency / voltage	50 Hz / 230 V	

SOC: A23 (100) > A22 (80) > A20 (20) > A21 (15) > A19 (10). Otherwise, error 42.

6 Factory reset (A30)

If something is set wrong, error 42 appears or the inverter behaves strangely: reset it to factory settings and set it up again using the table in this guide.

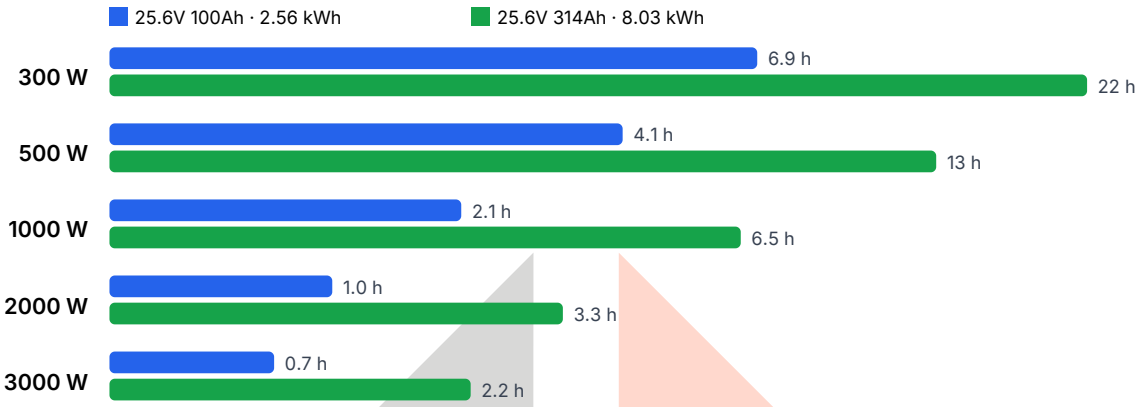
1. The inverter must be running on the battery (battery mode).
2. Hold ENTER for 2 s to enter the menu.
3. Use UP/DOWN to go to A30.
4. Press ENTER briefly, select RES with UP (the display shows “tES”), press ENTER briefly.
5. Hold ENTER > 2 s to exit. All settings return to factory values (A17 = Pb, A0 = PbG, etc.).
6. Go through the settings table again, starting with A17.

7 Common errors

Code	Cause	What to do
42	voltage/SOC order broken	fix per the rule or reset with A30
50 / 51	low battery voltage	charge it, check A3/A4
63	no communication with BMS	cable in RS485-2, protocol A17
54	overload	reduce the load
55–57	overheating	clean the filter, check the fan

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8 How long it will run



Approximate, without solar: 90% usable capacity × 90% efficiency.

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