

ACTIVE STACK — QUICK START

51.2 V · 314 Ah · 16 kWh per module · LiFePO₄ · stack on the base, control head on top · keep this card with the battery

✓ Turn on EVERY module in the stack

Master module = Address 0 (all 4 switches OFF)

● Green RUN = good

✗ Never wire to AC or PV

RST: hold 3 s = sleep / wake · hold 6 s = reset

TURN IT ON — 5 STEPS, ON EVERY MODULE

Every module in the stack has its own BMS, breaker, switch and address. Do all five steps on EACH module — not just the top one. A module that is asleep does not show on the screen and the inverter never sees it.

1 Unpack & check

Inspect for damage. Wires: red = +, black = -, yellow = comms. Stack the modules on the base, control head on top.

2 Set the address

Master (the one wired to the inverter) = all 4 switches **OFF** = Address 0. Next module Address 1, then 2, 3 ... Pictures on page 2.

3 Breaker ON

Flip the DC breaker to ON (overload / short-circuit protection).

4 BMS switch ON, hold RST 3 s

Turn the BMS switch on. If the LEDs stay dark, hold RST 3 seconds and let go — the LEDs light in order from RUN.

5 Confirm green

RUN solid green = module is live and healthy. Then look at the screen: it must count **every** module, not just one.

RST cheat-sheet: hold 3 s = sleep / wake toggle · hold 6 s = reset protection (all LEDs flash 1.5 s). Your settings are kept after a reset. **Changed an address switch? Hold RST 3 s (sleep), then 3 s again (wake) so the new address takes.**

DO & DON'T

✓ DO

- Recharge within 12 h after a full discharge
- Keep charge above 70% during long storage; cycle it every 3 months
- Match voltage within 2 V when adding or replacing a module
- Use a dry-powder extinguisher only
- Inspect terminals & wires every 3 months

✗ DON'T

- Connect directly to AC or PV / solar wires
- Series-connect modules — this is a 48 V DC design
- Mix different battery types on one bus
- Use a liquid extinguisher
- Open the pack or use solvents (voids warranty)

PORPS AT A GLANCE (EVERY MODULE)

BATTERY + / -

Main DC to the next module / busbar. Red +, black -.

DC BREAKER · BMS SWITCH · RST

Breaker ON, BMS switch ON, RST wakes / sleeps the BMS.

RS485 / CAN (RJ45)

To the inverter — **master module only**. CAN jack for closed loop.

RS485-A / RS485-B · ADD

Module-to-module chain (B → next A). ADD = 4-position address switch.

SPECS YOU'LL ACPUALLY NEED

NOMINAL

51.2 V / 314 Ah

ENERGY PER MODULE

16 kWh

CHARGE VOLTAGE

56.0 - 58.4 V

DISCHARGE CUTOFF

43.2 V

MAX CHARGE / DISCHARGE

200 A

WEIGHT PER MODULE

130 kg ± 5

CHARGE TEMP

0 to 45 °C

DISCHARGE TEMP

-20 to 60 °C

Size per module WxDxH 720 × 526 × 240 mm. Read the full user manual (esp. Ch. 1, Safe Use) before install. 10-year warranty — keep the invoice.

LED SPATUS — READ IP FASP

- **RUN solid green** — normal, all good
- **RUN flashing** — charging / discharging
- **ALM red flashing** — alarm / protection (see the fix table)
- **All off** — asleep or no output (hold RST 3 s)

Charge level — 6 LEDs, about 16.6% each:  Only the last light flashing = nearly empty, output about to shut off.

SOMETHING WRONG? SYMPTOM → FIX

Screen shows only 1 module (stack has more)	One of three things. (a) A module is asleep — every module needs breaker ON, BMS switch ON, green RUN. (b) Addresses — master must be Address 0 (all OFF) and the rest 1, 2, 3 ... with no repeats; after changing a switch, RST 3 s off / 3 s on. (c) Chain cable in the wrong jack — it goes RS485-B of one module to RS485-A of the next, never into the inverter's RS485/CAN jack.
Undervoltage alarm — ALM flashes, RUN off	Load too big or board fault. Fix: connect a charger to the input to activate it and release the lock.
Discharge overcurrent — ALM flashes, RUN off	Load exceeds the discharge limit. Fix: press RST to restart, or wait about 2 min to recover.
Temperature protection — ALM flashes, RUN off	Too hot or too cold. Fix: clears automatically once the temperature returns to normal.
No output — LEDs off, 0 V at terminals	Not activated / BMS abnormal. Fix: hold RST 3 s to activate. Still 0 V → call your KOOR dealer.

STACKING 2 OR MORE MODULES — ADDRESSES AND THE CHAIN

1. **Only the MASTER talks to the inverter.** The master is the module wired to the inverter's BMS port. Set it to **Address 0 = all 4 switches OFF**.
2. Give every other module its own address — 1, 2, 3 ... up to 14 — **no repeats**. Switch values: 1 = 1, 2 = 2, 3 = 4, 4 = 8 (slider UP = ON, drawn green).
3. **Chain in a line:** straight Ethernet from **RS485-B** of one module to **RS485-A** of the next. Master's RS485-A and the last module's RS485-B stay **empty**. Never a loop.
4. After every switch change, hold RST 3 s (sleep) then 3 s again (wake) on that module.
5. Replacing a module? Keep it within 2 V of the others or it trips charge-overcurrent and won't charge.

✓ **Check it**
The control-head screen's module list must light one entry per module — 0, 1, 2 ... If it shows only one, go back to the fix table above. The inverter then reads the whole stack as one battery.

✗ **Rules that break it**
Two modules on the same address · the chain cable plugged into the RS485/CAN (inverter) jack · a module left asleep · a loop back to the master.

ALL ADDRESS SWITCHES — UP TO 15 MODULES

Address 0 = MASTER

1 2 3 4
wired to the inverter

Address 1

1 2 3 4
module 2 in the chain

Address 2

1 2 3 4
module 3 in the chain

Address 3

1 2 3 4
module 4 in the chain

Address 4

1 2 3 4
module 5 in the chain

Address 5

1 2 3 4
module 6 in the chain

Address 6

1 2 3 4
module 7 in the chain

Address 7

1 2 3 4
module 8 in the chain

Address 8

1 2 3 4
module 9 in the chain

Address 9

1 2 3 4
module 10 in the chain

Address 10

1 2 3 4
module 11 in the chain

Address 11

1 2 3 4
module 12 in the chain

Address 12

1 2 3 4
module 13 in the chain

Address 13

1 2 3 4
module 14 in the chain

Address 14

1 2 3 4
module 15 in the chain

Green slider up = ON. Master is the module cabled to the inverter. Every module gets a different address; count up from 0.

Warranty: 10 years. Keep the invoice and warranty card. Not covered: improper use or storage, unauthorized repair, no invoice, or force majeure. Support: your authorized KOOR dealer.