MinerTech Battery stand

RK-3

A compact rack for 1–3 51.2V rack-mount modules with rails and an inverter frame on top. The whole 48-volt station on 0.4 m².



Main specifications

Dimensions (H × W × D)	**1400 × 600 × 650 mm**
Profile	**tube 40 × 40 × 2 mm**
Capacity	**3 battery modules on rails + inverter on the rear frame**
Module pitch	**≈ 200 mm (for 3U housings up to 150 mm high)**
Width between posts	**520 mm, for 19″ modules**
Finish	**powder coating; standard: black RAL 9005 or white RAL 9016, other RAL on request**
Frame warranty	**2 years**

What for: 48-volt kits with 1–3 rack modules: add capacity step by step without changing the rack.

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Why a stand, not a wall

Rented flat
not a single hole in the wall: the landlord has nothing to complain about, and when you move you take the whole station with the stand.

Fresh quality renovation
tiles, decorative plaster, wallpaper and painted walls stay intact; no need to look for hidden wiring before drilling.

Weak walls
plasterboard, aerated concrete and thin partitions hold the 6–15 kg of an inverter with a vibrating fan poorly; here the steel frame and floor take the weight.

Fire safety
a non-combustible steel frame instead of a wooden cabinet or shelf; the battery sits at the bottom, the centre of gravity is low.

Cooling and service
open design: air flows from all sides, terminals, breakers and the screen are accessible without dismantling.

Neatness
cables are tied to the frame tubes, and the station looks like one technical module rather than a set of boxes on the floor.

What fits

- 1–3 modules 51.2V 100Ah 5.12kWh (DATOU BOSS, Humsienk, modules with display): up to 15.4 kWh
- 48V inverters up to 11 kW (EASUN SMS-6.5KP, SMT-6.2KW, POWLAND, POWGROW, GSIKE, JSDsolar)

Not suitable: 4 or more modules (see RK-5 / RK-8).

Compatibility is checked against the dimensions of inverters and batteries in our catalogue. If you have other equipment, send us its dimensions: we will pick a stand or make one to fit.

Expert opinion

The ideal start for 48V: the inverter and 1–3 modules of 5.12 kWh in one structure. Start with one module, and when you want more autonomy, add two more on the same rails without any rework.

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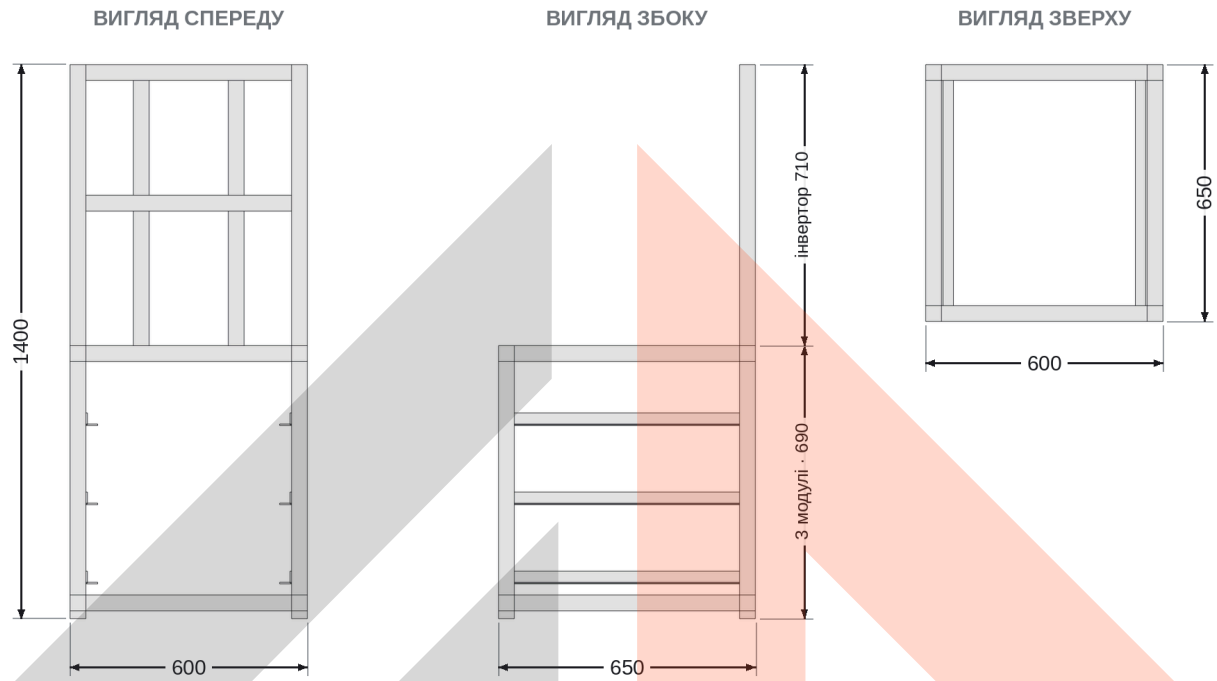
Drawing

MinerTech Стелаж RK-3 · креслення — розміри в мм



Габарити (В × Ш × Г)	**1400 × 600 × 650 мм**
Профіль	**труба 40 × 40 × 2 мм**
Місткість	**3 модулі АКБ на напрямних + інвертор на задній рамі**
Крок модулів	**≈ 200 мм (під корпуси 3U до 150 мм заввишки)**
Ширина між стійками	**520 мм — під модулі формату 19″**

Нестандартні розміри — під ваше обладнання

External dimensions in millimetres. Manufacturing tolerance ±5 mm. Non-standard sizes to fit your equipment.

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Fitting, safety

- Fill the rack from the bottom up; fix the front ears of the modules with M6 screws.
- Take the jumpers between modules and the communication cable (RS485/CAN) from the battery kit; power cables to the inverter through a separate DC breaker.
- With a load over 200 kg, place the rack on a concrete or tiled floor, not on a wooden joist floor.
- Connect the frame to earth (PE conductor from 6 mm²).

Build and colour

The frame is welded from steel box section; welds are cleaned, and the structure is powder coated and oven cured. The coating is dense and resistant to moisture, scratches and UV. Standard colours are black RAL 9005 and white RAL 9016; any other RAL colour and non-standard sizes for your equipment are made to order. Frame warranty: 2 years.

RAL 9005 RAL 9016 RAL 7016 RAL 7035 RAL 9006 RAL 8017 RAL 5010

Colours on screen and in print are approximate.

Supplied

Welded stand frame, powder coated. The inverter, batteries, switchgear and cables in the images are shown as examples and are not included.





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