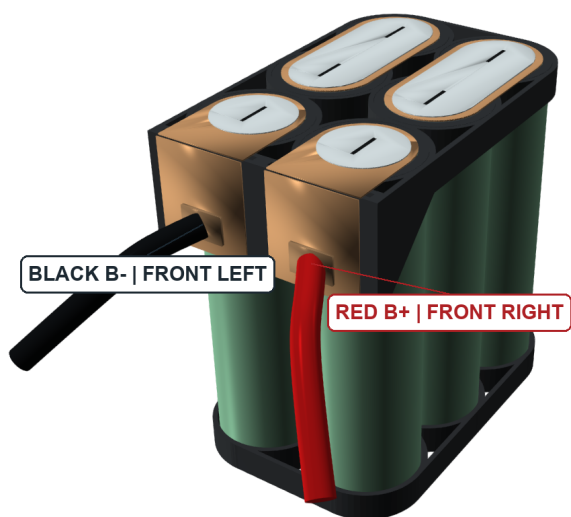


DESIGN REVIEW

Cells shown installed for illustration: DIY kit excludes cells; separate assembled pack includes selected cells.

FACE A

TOP POS/NEG | BOTH CABLES



- Black B- welds to the front left copper bend (G6-).
- Red B+ welds to the front right copper bend (G1+).
- Top bridges join G4-G5 and G2-G3.

FACE B

BOTTOM BASE | SERIES BRIDGES



- Bottom bridges join G5-G6 and G1-G2.
- The far cross bridge joins G4+ to G3-.
- Align stainless slits to every cell end.

BEFORE ASSEMBLY

Confirm every 21700 cell end with a meter before fitting metal parts.

Stainless steel lies over copper; align both layers' slits to the cell contacts.

Weld each 6-inch bare lead to its front copper bend; insulate both joints and exposed edges.

Included JST balance connector: compatible smart charger only. No BMS included; JST does not replace a BMS.

PLANNING ESTIMATE | assembled core W x L x H: 47 x 72 x 72 mm | mass: 432-510 g

Modeled core: 21700 cells 67-75 g each + 5-10 g/cell hardware allowance; excludes leads, connector, BMS, wrap and shipping box.

Copper 0.2-0.3 mm; confirm stainless gauge. Centered 0.8 x 7 mm slits in both layers. Check the supplied material and thickness.

Fit 6 21700 cells as shown before mounting the busbars.

Each circle shows the group number and the exposed polarity on that face.

FACE A
TOP

FRONT / CABLE END
FACE B
UNDERSIDE

FRONT / CABLE END

SERIES PATH

B+ (G1+) -> G1 -> G2 -> G3 -> G4 -> G5 -> G6 -> B- (G6-)

POLARITY CHECK

Top front: G6- left / G1+ right; bottom signs are reversed.

Do not infer polarity from sleeve color or this illustration alone. Verify each cell with a meter.

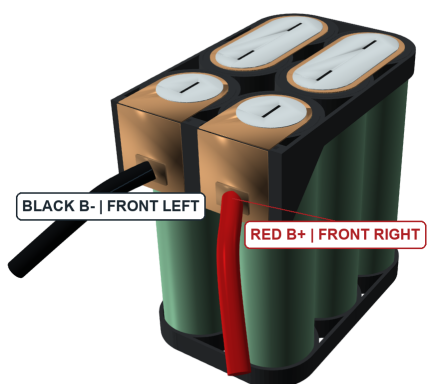
A concept render is not a cutting template or a confirmed production assembly.

Check the supplied parts against this guide before placing the busbars.

21700 cell and cut-part illustrations show placement; follow the selected kit contents.

DESIGN REVIEW

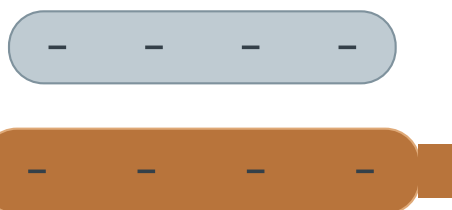
ASSEMBLED ORIENTATION



B+ red: front right. B- black: front left. Cell ends and holders are shown installed for illustration.

LOOSE CONTACT LAYERS

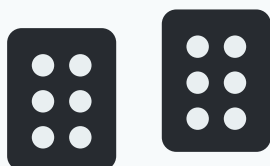
STAINLESS CONTACT OVERLAY



COPPER BUSBAR + BARE CABLE BEND

Stainless is smaller; it provides a weldable surface and corrosion resistance. Contact shape is representative; verify the supplied parts.

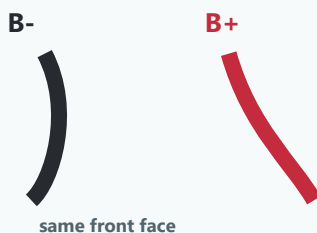
TWO CELL HOLDERS



6S1P - 6 cell pockets

Top + bottom tray set

TWO POWER CABLES



6 in leads, 12 AWG or 10 AWG as selected. Both exit the pack front.

JST BALANCE + PVC

7-position balance lead



JST for compatible smart chargers only. Clear PVC cover and printed guide included.

INSTALLATION ORDER

- 1 Orient every cell and verify + / - at both faces before fitting metal.
- 2 Seat each copper busbar on its matching cell group; align every 0.8 x 7 mm slit.
- 3 Place the smaller slotted stainless contact over copper, then weld at cell ends.
- 4 Weld red B+ right / black B- left at the front copper bends; insulate and cover.

DIY kit: cells not included. Separately quoted built packs include installed cells. No BMS; the JST lead is for compatible smart chargers only.