DIY500AMP
YOUR TRUSTED STORE

2S1P 21700

COPPER + STAINLESS

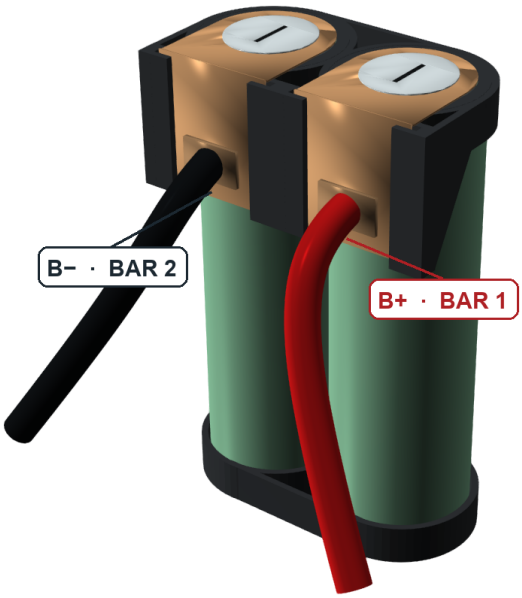
ORIENTATION & FRONT LEAD WELDS

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- weld: front copper bend, left cell (G2-).
- Red B+ weld: front copper bend, right cell (G1+).
- Slotted stainless steel aligns over each copper contact.

FACE B

BOTTOM BASE | SERIES BRIDGE

- Join G2+ left to G1- right with the series bridge.
- Keep the bridge separate from both top terminals.
- Use the same physical front as the top view.

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 26 x 72 mm | mass: 144-170 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.

Exact 2S1P holder; current copper DXFs adapted to 22.75 mm pitch. Verify leads.

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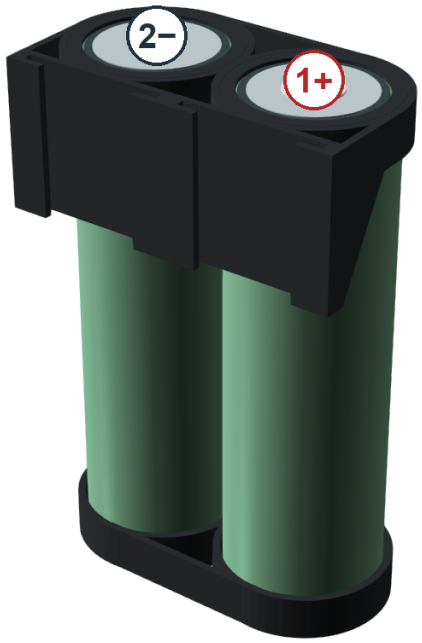
CELL ORIENTATION

POSITIVE AND NEGATIVE ENDS

Fit 2 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 -> B- (G2-)

POLARITY CHECK

Top: G2- left / G1+ right. Bottom: G2+ left / G1- right.

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.