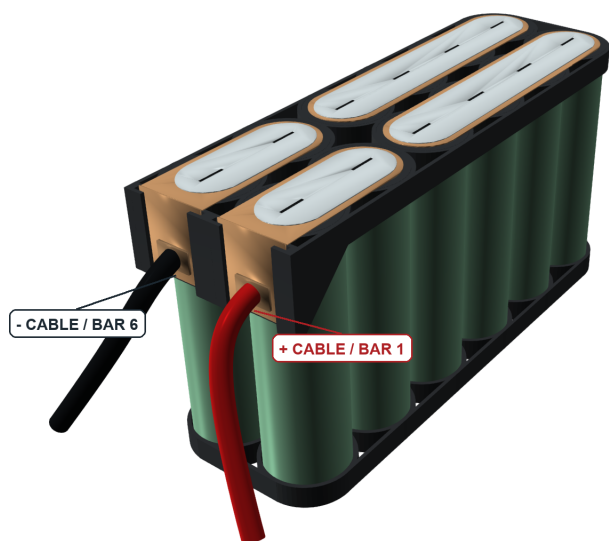


Place slotted stainless steel over each copper busbar for the 12-cell layout.

Cells shown installed for illustration: kit-only excludes cells; cell-inclusive option depends on selection.

FACE A

TOP POS/NEG TRAY | BOTH OUTPUTS



B- / Group 6 at front left; B+ / Group 1 at front right.

Four-cell bars join G4-G5 left and G3-G2 right.

Weld leads to the bare front copper bends.

FACE B

BOTTOM BASE TRAY | SERIES CONNECTIONS



Square bridge joins G4+ left to G3- right.

Four-cell bars join G5-G6 left and G2-G1 right.

Each stainless piece sits directly over its copper bar.

CHECK BEFORE WELDING

Confirm every cell end with a meter before placing the copper/stainless stack.

Keep separate busbars from touching; insulate each cable joint and exposed edge.

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 140 x 72 mm | mass: 864-1,020 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.

CELL ORIENTATION

POSITIVE AND NEGATIVE ENDS

Orient all 12 21700 cells before fitting a busbar.

Each badge marks the series group and the exposed cell-end polarity on that face.

3D VIEW

21700 CELLS BETWEEN THE TWO HOLDER FACES



FACE A | TOP



FACE B | BOTTOM

FACE A

TOP POS/NEG

FAR END



FRONT / CABLE END

FACE B

BOTTOM BASE

ORIGINAL NEAR END



ORIGINAL FAR END

POLARITY CHECK

Top cable face: G6- left and G1+ right at near end.

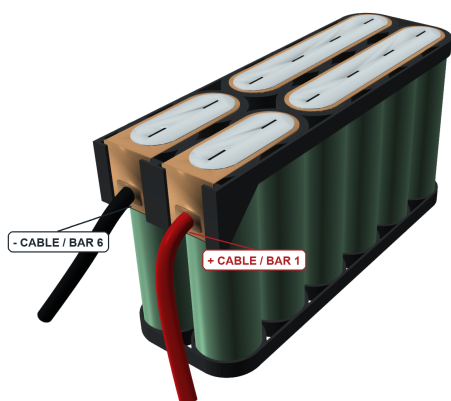
Verify the installed cells with a meter before fitting the busbars.

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

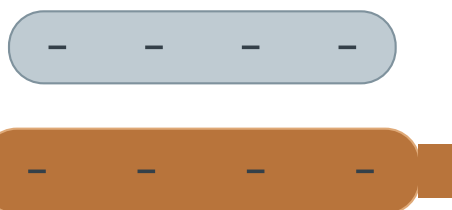
ASSEMBLED ORIENTATION



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

LOOSE CONTACT LAYERS

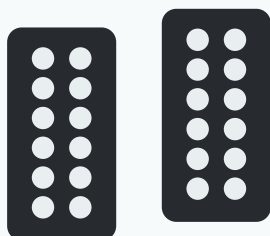
STAINLESS CONTACT OVERLAY



COPPER BUSBAR + BARE CABLE BEND

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

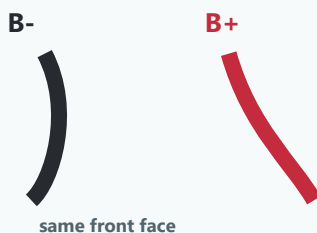
TWO CELL HOLDERS



6S2P - 12 cell pockets

Top + bottom tray set

TWO POWER CABLES



same front face

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 unless a cell-inclusive option is selected. No BMS; the JST lead is for compatible smart chargers only.